FEBRUARY, 1984 Vol. 2 Iss. 11

THE ACE Monthly

INSIDE THIS ISSUE: THE HISTORY OF OFFSHORE BROADCASTING & NEW PIRATE SHIP FOR ENGLAND!

WDX

PIRATE RADIO 1620 AM

QSL CONFIRMING RECEPTION OF WDX AT 1620 KHz ON ~~--~~ at — GMT BY Darren Leno DURING WDX'S SECOND TALL-TOWER BROADCAST CLUSTER. THE STAFF AND MANAGEMENT OF WDX THANKS YOU FOR YOUR CONTINUED SUPPORT OF PIRATE RADIO EVERYWHERE. WDX WELCOMES COMMENTS AND SUGGESTIONS CONCERNING OUR TECHNICAL QUALITY AND PROGRAMMING, AS WELL AS QUESTIONS OF MEMBERSHIP AND OPERATIONS OF THE FUBAR ORGANIZATION. WE ALSO WELCOME REQUESTS FOR CIRCUITS OR TECHNICAL ASSISTANCE.

73's

Pirates Mike Christian & Jack Slater

Last heard on May 29, 1983, WDX's illicit return to the airwaves seems to have been greated with much enthusiasm by the DX community. Hundreds (perhaps thousands) of people from Michigan to Maine tuned into the WDX "tall tower" transmissions of January 2,7 & 8, which originated from a small island just off the eastern seaboard. Pirate Mike told A*C*E during a phone conversation that, although it may be hard to believe, Pirate Jack and himself actually did take a trip to a small island to set up their broadcasting equipment. Mike also said that WDX is hoping to make it to the air more than a couple of times in 1984. For a more detailed discription of the WDX transmissions, see page 4 of A*C*E DiaLogs.

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MEDIA SCAN

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Deadline 15th

I hope you're all trying to keep (a) dry, (b) warm, or (c) out from under the snow depending on where you live. I personally have been doing my listening lately while waiting for the water in the cellar to get high enough to pump out. Rain in the winter, who would believe it?

If you heard a streaming crowd of Ameteur Radio Operators piling on the bands towards the beginning of December, you were probably listening to the attempted broadcasts the Space Shuttle Columbia; specificly to ham Owen Garriott, who by the way is a local boy at least to your editor as he once lived in this area. I have heard from several people spread down the east coast that the signal (that from the Columbia) was quite strong.

Following closely after the rebirth of Radio Caroline, there are reports that another broadcasting ship will be joining R.C. in broadcasting to Great Britain from sea.

The ship is said to be equiped with four 5Kw medium-wave trans. Its antenna is said to be suspended from a large helium baloon that will be floated above the ship.

The reported owners are said to be from New York although there are no definite reports as to who they are. Much money has been pushed into the project.

Attempts are being made to make the ship a legal broadcaster to the area. Keep in mind that legal doesn't mean liscensed just not specificly illegal. It is said to be enroute to Spain before moving to its transmitting position of the coast of England.

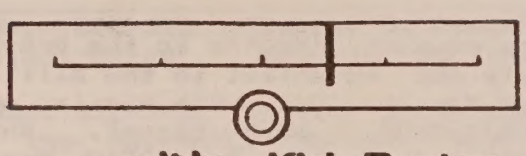
European readers should look for the station between 500-700 KHz medium wave with a rock format.(RADIO NETHERLAND'S MEDIA NETWORK)

A 50ft. long longwire difficult to place in the back yard? Try one 50 Miles long, the U.S. Navy is. Its apperent purpose is to communicate with submerged submarines using very low freqs. Whether its operating yet or not is still a mystery as the navy would rather not have it known.

A group of residents surrounding it attempted to get its construction stopped because it may pose a health threat. No dice(Med. Network)

Tim Corcoran

A*C*E DIALOGS



with: Kirk Baxter

FEBRUARY

Send your free radio loggings, clandestine, unknowns, or oddities to: Kirk Baxter, P.O.B. 2571, Shawnee Mission, KS. 66201-2571. Phone # (913) 262-3247, before 0500 gmt. The deadline for loggings is the 15th of each month. Logging forms are available at the above address for a SASE. Lots of contributions this month, so I'll save any comments for the end, so on to the loggings....

NORTH AMERICA — MEDIUM WAVE

KPRC: 1616, 12/19, 0512. Phone-in show // on 6240. Poor reception. (SMITH,TN) 1615.9, 12/19, 0440-0640. Call from Crawford that KPRC was on 6240. Tuned in w/ oldies on 6240.6, parody ads, and phone calls via (212) 352-9906. After calling I was amazed to find 1616 at local strength. Also on 91.5 Mhz. Anncd address as POB 747, Exeter, NH. 03833. IDed as "This is KPRC, brdcsting live from our luxurious studios overlooking Manhattan." (KRUGER,FL) 1616, 12/19, 0520-0713+, SIO=444. SW signal not heard here and too far for FM. Seemed to be his year end show. Thanks Joe for a great station, and may it continue. (CHERNOS,ONT) 1616, 1/9, 0323-0650+, SIO=555. Rock mx and PCs. (MORRISON,ME) 1616, 1/9, 0330-0630+. Usual prgm and address using varying IDs Anncd parallel on SW & FM. "Dominating the East Coast with the best in Pirate Radio..." Promo with sound of radio being tuned on the FM dial and landing on "...KPRC, the station that melts in your mind." (STEPHANY,NY) 1616, 1/9, 0605-0635, SIO=111. No SW freq noted. Mostly mx with a few phone calls. Come back to SW, Pirate Joe. (LOCHMILLER,IA) 1616, 1/9, 0428-0515+, SIO=544. Usual program taking phone calls and playing 60s mx. Less politics this time. Caller reported KORP on 20 meters. Some QRM from the Caribbean Beacon and from an unided "ad-libber". (YODER,PA) 1615.9 SIO=343-322// 6274.4 SIO=242, 1/9, 0305-0620. Mostly mx at first but then callers. Refreshingly non-political this night. Most interesting thing was a station using LSB zero-beat 1615.9 to make comments using phoney accent about the KPRC programming. Caller to KPRC asked the LSB station how much power he was running and he said "45,000 watts". He was very strong, but not that strong. (McCLELLAN,MI) 1616, 1/9, 0435. Progrm // on 6275. Another station on LSB was making comments about KPRC's programming in an fake Oriental accent. (MARTIN,DE) 1616 SIO=444 // 6275 SIO=323 // 91.5 SIO=222, 1/9, 0330-0650+. Heard on all 3 freqs. Mx was mostly older songs including "I'll Be There", "Bus Stop", etc..Audio was very muffled. Heavily QRMed on 1616 by a deliberate SSB jammer calling himself "The Pirate Blaster—big and small, we stomp them all!". Took phone calls, including two from me. 6275 had some local QRM, and 91.5 was very weak. S/off with "Good Night Irene". PSE QSL! (POLLOCK,NY) 1616, 1/9, 0325-0410 f/out, SIO=323. Mainly Motown mx. Strong beacon QRM which I could only partially null out. After 0358, QM jamming with jibberish such as "stop, stop, stop it!" and belching. Not heard on 6240. (FARLEY,IL)

Radio Alchemy: 1631.5, 1/1, 0435-0610*, SIO=232-333. Weird mx, Wash DC loop #, calls were put on the air, but phone patch audio was terrible. Gave Moorhead address (though wrong zip) for reports. (McCLELLAN,MI) 1632, 1/1, 0445-0610+. Slightly strange mx, taking phone calls via a loop. Stated 200 watts of power. I've already gotten my QSL via the Moorhead address. (MARTIN,DE) 1632, 1/1, 0455-0605, SIO=111. No definite IDs heard. Seemed to be using loop # (202) 566-9906 or 996-9948 or 996-0048. Rock mx and talk abt pirates. (CHERNOS,ONT) 1632, 1/1, 0400-0435, SIO=344. Anncr "Jolandris" claimed to have studios deep underneath Big Ben in London, xmitter on a ship in the Atlantic bouncing signals off a satellite to reach N.A. Took phone calls, but had patch problems. Brdcst a portion of an excellent documentary of "Radio Haraki", a New Zealand area seagoing pirate. (PYM,DC) 1632, 1/1, 0507-0615. DJ was Jim Andris. Asst mx, phone patch w/ problems. Tape abt R. Hierarchy in NZ. Said to have studios in UK, xmitter on ship. Said they would be on when it's snowy and they would be difficult for the FCC to track them, but why should they worry if they're on a ship? Said power was 180-200 watts. (STEPHANY,NY)

Rebel Music Radio: 1616, 12/25, *0500-0600. Extremely strong signal (39-45 db) signal, equal to that of local bc station. Slight distortion on voice. Said to be brdcsting to S. Canada and E. US with "first annual anti-war no-nuke peace night brdcst". Music included "Did Jesus Have a Baby

Sitter?","Masters of War", "You're in the Army Now", "The Draft Resisters", etc.. Urged people not to enlist in the military and s/off with a hello to PRN. Same stn on May Day (5/1) with similar programming then. (DECKER,NY) 1616, 12/25, 0530-0600. Weak signal. Anti-war station with mx and commentary. (MARTIN,DE) 1616, 1/1, 0510. Rock mx with anncments. No QSL info. Weak signal. (STEPHANY,NY) 1616, 1/1, *0500-0615*. Very strong with some audio distortion. Program content was the top 20 protest hits in a 'golden protest weekend'. S/off with "member in good standing of the'secret radio network'". (DECKER,NY) 1616, 1/1, 0505. Very weak signal with rock mx. (CHERNOS,ONT) 1616, 1/1, 0545-0555, SIO=222. Anti-war and other 60s type mx. A carrier on 1615 made copy difficult. (PYM,DC)

Voice of Tomorrow: 1616, 11/25, 0600. Noted with drum beat and wolf howl, but faded down quickly. Received a card from Hartford, CT. signed by Phillip Carey. (SCHMIDT,DE)

WDX: 1620, 1/2, 0410-0500*. Top 40 mx and PCs. Had problems with loops. Quite pro. Had WDX's "Critic Segment". QSLs via Moorhead. Played "The Life of a Pirate for Me" from Peter Pan, and other songs. Also heard on 1/7. (STEPHANY,NY) 1620, 1/2, 0414-0500*, SIO=333. Mx show with Pirate Mike. "Stupid Avenue" and "Stupid Rock" were two of the songs played. S/off with address and reverb. Most pro-sounding station I've heard yet. (YODER,PA) 1620, 1/2, 0411-0502*, SIO=555. Professional program with PCs and mentions of KPRC. IDed as "DX-1620", and gave Moorhead address. Using loop #s (212) 989-9979, 982-9979& 220-9979. (RENINGER,NY) 1620, 1/2, 0444-0502*, SIO=434. Rock mx and attempted to take phone calls, but couldn't find any working loop #s. Anncd "Charter station of EUBAR, Federation of unlicensed broadcasters on AM Radio." PSE QSL! (POLLOCK,NY) 1620, 1/7, 0310-0700, SIO=323. Pop mx and PC. Claimed to be off on a tiny island off the E. Coast. (POLLOCK,NY) 1620, 1/7, 0627-0700, SIO=344. Excellent audio and IDs were among the best produced I have heard. Loops constantly were going dead. Their theme song is "Who's Afraid of the Big Bad Wolf?" complete with an ominous knock on the door. (PYM,DC) 1620, 1/7, 0639-0710*, SIO=343. "Pirate Line" show with mx by The Box Tops, Cars, etc.. and problems with their phone lines. (SPREMO,NY) 1620, 1/7, 0447-0716*, SIO=434. "Live Mike Show" played mx hosted by Pirate Mike till 0500 then phone calls which were low in audio. One caller anncd the beginning of a new 41 meter pirate, KPUC, and one caller mentioned an FM station, "Radio Free Dead Kennedy". S/off after many loop problems. (YODER,PA) 1620, 1/7, 0546. Talk program with phone calls. Very good audio and signal. Calls to (212) 966-9979. WDX took a call from Belfast, MA at 0605--bet it was "the big ear"! (SCHMIDT,DE) 1620, 1/7, 0332-0715*, SIO=323. Mx by ELO, The Police, and a song called "Mr.T's favorite song". Phone calls were aired, but they were having trouble with the loop #. Gave Moorhead address. Some QRM from beacons. Very pro brdcst, and first time I've heard this one. (WALKENDORF,MI) 1620.0, 1/7, 0303-0630, SIO=343. Very good audio and program. Phone-in show began at 0500. (McCLELLAN,MI) 1620, 1/7, 0315-0700. "Friday Night Pirate Party" show this evening, and later there was a phone-in show. Many callers participated. (MARTIN,DE) 1620, 1/7, 0305-0715*, SIO=444. Rock mx and phone in talk show. At 0430 Pirate Mike did a feature on the mx of some guy I never heard of. There was a tip for KPUT in a few weeks around 7420-7430. The guy from KPUT who called was really boring. (RENINGER,NY) 1620, 1/8, 0616-0640*. Apology for no "Pirate Line". Theme song, and quips abt Pirate Mike going out to fix their 'tall tower' on their tiny island. (STEPHANY,NY) 1620, 1/8, 0312-0430*, SIO=444. Same type program as previous night, but suddenly vanished at 0430. (RENINGER,NY) 1620, 1/8, 0300-0420. Program similar to previous night, but off abruptly. (MARTIN,DE) 1620, 1/8, 0308-0439*, SIO=444. Carribean reggae mx with Pirate Mike, then Pirate Jack with pop mx. Suddenly off at 0430. (POLLOCK,NY) 1620, 1/8, 0300-0647*, extremely weak at first but in at fair level at 0600. Apologized for technical problems. (McCLELLAN,MI) 1620, 1/8, 0635-0645, SIO=211. All I could hear was a song "Der Kommisar," address as Box 245, and the national anthem at s/off. Professional sounding stn. (LOCHMILLER,IA) 1620, 1/8, 0315-0402 & 0605-0647*, SIO=122-434. "Live Mike Show" played mx mostly due to loop problems. Mx by ATF, The Fixx, Hall & Oates, and "Who's Afraid of the Big Bad Wolf?". (YODER,PA) [PCs = phone calls - kgb]

NORTH AMERICA — SHORT WAVE

Das Glockenspiel: 7430, 1/2, 0000-0010, SIO=433. Stn playing GG party songs and "O Tannenbaum" at s/off. I presume it was this stn, it's the only one which brdcsts in GG on the 41 m.b. (LOCHMILLER,IA) 7430v, 1/1-2, 2329-0010*. All in GG with Ray Coniff-style oompah mx, yodelling and very brief talk segments. S/off with gunfire alternating with "O Tannenbaum". What's the point of this station? (HORVITZ,RI) 7430, 1/1, 2330-2345, SIO=333. GG pop mx with IDs after every song. Signal either faded or went off. (ROBERTS,OH) 7431, 1/1, 2325-0000 f/out, SIO=444. GG rock and folk tunes with a few EE rock songs. Even with GG commercials including one for the Opal car, the "Escona". This car is not sold in the US, so I doubt this station is taped from a US ethnic program. Very mysterious. IDs were done by an OM and a YL, who called herself Heidi. (PYM,DC) 7429, 1/1-2, 2325-0029*, SIO=333-444. GG mx and talk with some US pop mx. (BIGLEY,TX)

KEAT: 7432, 1/16, 0611-0718*, SIO=232. C&W mx by Jerry Jeff Walker and others. Ad for "Cut Throat Electronics". S/off w/ QSL info. (BIGLEY,TX)

KNRD: 7401 USB, 1/1, 0340-0350, SIO=242. Station noted playing some wild instrumental rock mx with the ID,"KRND, Warsaw, Wisc. FM 88.1 and sideband." (BIGLEY,TX)

KPRC: 6240, 12/19, 0434-0532 f/out, SIO=443. Good mx mix with many IDs. Anncd they were "working live tonight from studios overlooking Manhattan." Took calls via (212) 352-9906. Very good signal here, as well as on 1616, which was SIO=333. (FARLEY,IL)

KQRP: 15050, 1/7, 1938. Clear reception for just a few brief minutes. IDed as "KQRP, brdcsting in the 19 m.b.". Said they were "brdcsting from atop a lonely mountain somewhere in N.A.". DJ was Doctor X. Signal quickly faded out. (SMITH,TN) 15049.9, 1/7, 1900-1924*, SIO=454 at peaks. Mx by Def Leppard, Styx, and others. Gave BC,MI address for reports. Abruptly off in mid-song. This station also uses 5906, 9935, 11612, 15013, and 17950 kcs. (McCLELLAN,MI) 15050 & 9935, 1/7, 1905-2248*, SIO=242. Rock mx with a couple of IDs and address for reports. At 1950 change was made to 9935 with more rock mx. (SPREMO,NY)

KQSB: 7433, 12/25, 0500, SIO=232. Frank Furter played rock mx, but mostly unreadable due to high local powerline noise. (ARTHUR,HI) 7430, 12/25, 0510. Special Christmas show presented, with Jingle Bells 'sung' by barking dogs. (MARTIN,DE) 6272, 12/25, 0600-0617*, SIO=232. Rock version of "Santa Claus is Coming to Town". Variation of "12 Days of Christmas", and R-rated version of "The Night Before Christmas". What I could hear of it was pretty entertaining. Uncle Ralph dedicated a love song to his woman, and Frank Furter IDed with barking dogs in the background. (ALLEN,OK) 15100, 1/7, *2001-2014*, SIO=454. "The Old Art" hosted this short brdcst and gave a very good commentary about the FCC and Free Radio. (ALLEN,OK)

New Wave Radio Int'l: 7399, 1/8, 0530-0746+, SIO=555-333. Tuned in to 'techno-pop' mx. Time check for 11:38 p.m., ID and stated 7399 khz with 100 watts. Shifting conditions and increased QRM resulted in gradually deteriorating signal. At 0711 same OM sent 'greetings to all DXers' and discussed where to send reports; finally said to send them to ACE DiaLogs and "we can't guarantee anything but we'll try." Quite good on both the R-388 and the ICF2001. PSE QSL! (ARTHUR,HI) 7399, 1/8, 0702-0731+, SIO=211. Very weak with ute QRM and heavy QRN. Mx by the Talking Heads. (YODER,PA) 7400, 1/8, 0538-0613, SIO=242. ID with mx such as "Puttin' on the Ritz" and "Electric Ave." (SMITH,TN) 7399.2, 1/9, 0535-0640, SIO=333. Anncd time in CST. Good mx. Anncd freq of 7398. Program seemed to be live. (THIBODEAUX,LA) 7399v, 1/8, 0543-0830+, SIO=343. OM anncr with rock and new wave mx by the Police, Devo, etc.. Said reports in ACE DiaLogs might be verified. I wonder why they can't use a maildrop like everyone else. Good audio on mx, but voice was muffled and lacked treble. Also talk abt Friday Night Videos. Freq drifted up a bit. PSE QSL! (McCLELLAN,MI) 7399, 1/8, 1046-1120, SIO=354. New wave mx and brief anncments and IDs. Apparently was a very long xmission. May have come on about 0550. (ALLEN,OK)

Radio Angeline: 6225.0, 1/1, 0500-0520, SIO=332. OM anncr with possible euro accent, pop mx, poor voice modulation. Very nice mx. (THIBODEAUX,LA) 6225.3, 1/1, 2015-2029*. Tuned in as "It's the Happiest Time of Your Life" was ending followed by the ID,"Radio Angeline, with Joe-Joe Katoo with you, on a journey of eternal love, that all of us one day will make." A slow rock instrumental came up under the anncr, and in an electronically altered whisper he read a long sentimental poem about first love. It was voice so effectively that I began to think this brdcst might be a sort of suicide note to his lost love Angeline. S/off anncment was, "Good-bye from R. Angeline. Good luck and good love in 1984. This is Joe-Joe Katoo, your host....Angeline, I love you forever....Radio Angeline is an extended incorporated increasing enterprise of Angeline Envelopes." (?!) Then 4 choruses of "Send in the Clowns" on toy chimes. No QSL offered, but if you're out there, PSE QSL!. This is the most original non-political, non-parody pirate I've heard yet. (HORVITZ,RI) 6225, 1/1, 1955-2030*, SIO=454. 70s mx with anncr Joe-Joe Catoo (or something like that). Ads for insurance ("break a leg? Call us. Sever an artery? Call us. Lapse into a coma? Have someone call us.") and concerts featuring the Beatles and the Talking Heads, Hendrix and the Bee Gees. Closed with "Send in the Clowns" played on a music box. PSE QSL! (ROBERTS,OH) 7433.1, 1/16, 0116-0134*, SIO=222-333. "Birthday" by The Beatles, 0126 "O Tannenbaum" with gun fire and drum roll sound effects (somewhat like Das Glockenspiel). S/off with IS as before. (BAITER,KS) 7433, 1/16, 0043-0145*, SIO=323. Stn w/ old movie sound tracks and rock mx. Good modulation and audio. (BIGLEY,TX)

Radio Bag: 3465, 12/26, 0610-0628, SIO=444. A real weird stn playing Christmas and novelty songs by Dean Martin and others. The DJ sounded like a screaming Monty Python member. Anncd an address in Wash. DC, and wished everyone a Merry Christmas and a good bag--whatever that means. (LOCHMILLER,IA) 3465, 12/26, 0612-0627. ID sounded like 'Radio Bah'. This was a funny voiced

anncr which I could not understand at all. Stn played Christmas mx, and at 0627 they s/off with ID. (BRENNAN,IN) 3465, 12/26, 0545-0628*, SIO=322. Hard to copy, but seemed to be calling itself 'Radio Bag'. Christmas songs, with dogs barking to the tune of "Jingle Bells". (SMITH,TN) 3465, 12/26, 0540-0628*, SIO=444. Crazy sounding YL DJ playing what was described as "Bag Christmas music", including "A Reindeer Ran Over Grandma", "CB Santa Claus", "A Ronald MacDonald Christmas", etc... Long commentary about all the different types of bags that exist in the world. Said you could get a "QSL Bag" by writing to P.O.Box 40554, Washington DC 20016. Very good production, but the anncr sounded like she was from a different planet. (PYM,DC) 7414.4, 12/24, 0640-0741*, SIO=333. OM anncr using falsetto voice, 99% unintelligable. Mx audio was very good. Rock and Christmas mx. ID only tentative, may have been "Radio Bad". Wish they would have talked more plainly. (ALLEN,OK) 7420, 12/24, 0651-0705, SIO=222. Played various Christmas standards and novelties. Seemed to have some trouble with the speed on their turntable. Hosted by a somewhat annoying falsetto voiced OM. Balance of prgm inaudible to QRN. ID sounded like "Radio Bad". (POLLOCK,NY)

Radio Clandestine: 11755, 12/17, *1900-1957*, SIO=454. Novelty songs, rock mx, and parody ads for the phone co. Cheech and Chong skit on "Another Look at Life", and interview with RF Burns. (ROBERTS,OH) 11600, 1/1, 2054-2115, SIO=343. RF Burns introduced the inhabitants of the RC ship. Played some British heavy metal rock mx. Very excellent sound. (ALLEN,OK) 11600, 1/1, 2043-2115*, poor to fair reception, rock mx, humorous record "Dragon Net"--i.e. Dragnet parody. (SMITH,TN) 11600, 1/1, 2048-2115*, SIO=454. Rock classics, several skits with RF Burns. As usual, very enjoyable listening. (McCLELLAN,MI) 11600, 1/1, 2050-2115*, SIO=444. RF Burns, with Boris and Drool the cabin boy all on board for this show of mx and interviews. Very good signal and production as usual. (BAXTER,KS)

Radio Free Insanity: 7430, 12/15, 0113-0133, SIO=444. Mx by the Knack, and Men at Work. Off suddenly in the middle of an English folk song about pirates. (LOCHMILLER,IA) 7430, 12/18, 0348-0400 f/out, SIO=323. "Legend of a Mind" by the Moody Blues and a song by REO. Also heard same day at 0433-0500 with mx by Uniform and 0606-0645 with mx again by REO and the Moody Blues. All these shows were called "The Electric Buddha Show". (LOCHMILLER,IA) 7432, 12/18, 0421-0501, SIO=444-433. Rock mx including Led Zepplin and One Man Band. Id at 0501 as "commercial free....show". (DeWHITT,OK) 7430.6, 12/18, 0606-0707+, SIO=333. Station with very good audio and signal. 70s mx of "Timothy Leary", "Nature's Way", "Mornin' Girl", etc.. played, with only title anncments given; little other said. (BAXTER,KS) 7430.6, 12/18, 2241-2255, SIO=232. Same type program as the previous night; again entitled "The Electric Buddha Show". (BAXTER,KS) 7431.4v, 12/18, 0400-0501, SIO=333-444. Format of mx and brief song anncments and IDs. Mx by Chicago, Led Zepplin, Lighthouse, and others. Good audio. Also heard 7430.7, 12/18, 2249-2256. (ALLEN,OK) 7430, 1/2, 2326-0130*, SIO=333. Rock mx and calls to (202) 966-9948. (BIGLEY,TX) 7430, 1/3, 0105-0130, SIO=444. Excellent signal with +20 peaks. OM with IDs and BC address. Mx mostly from the early 70s. Good audio and tech quality. (ALLEN,OK) 7430, 1/3, 0117-0131, SIO=443=332. Paul Simon mx and Battle Creek adress given for QSLs. Gave a loop # of (202) 406-9948, but I couldn't reach them. (DeWHITT,OK)

Radio Morania: 3867, 1/8, 0605-0621*, SIO=444. Also called themselves RME-Radio Morania External Service. Good signal, nice modulation and slick program. Programs included 'CW by Radio Course', 'Moranian Ham Shack', 'Moranian Sports Box'. Several times gave address as P.O.Box 333, with the rest drowned out by intentionally mixed noise. S/off with the National anthem of the Free Country of Morania (sounded like kazoo mx). (HOUDE,VA)

Radio Paradise Int'l: 6900, 12/25, 0515-0628, SIO=233. Christmas show by RPI with mx by Boston, Romantics, Walter Egan and seasonal pieces. (LOCHMILLER,IA) 6900, 12/25, 0523-0530, SIO=242. Christmas show. Asked for reports to BC,MI address. (SMITH,TN)

Radio USA: 14470 LSB, 12/24, 1859-1910. Computer generated mx and IDs. Reasonably good signal but I had difficulty in clarifying the signal. (SANTOSUOSSO,FL) 7420 LSB. 12/26, *0602-0610*, SIO=343. Stn noted at s/on with ELO's "Mr. Blue Sky". Replayed one of the Apollo Christmas messages,

and wished everyone a Merry Christmas. (BIGLEY,TX)

Radio VPR: No, it's not back on the air, but the station has contacted me and is willing to verify any old reports. Enclose three 20 cent stamps. (McClellan, Box 982, Battle Creek, MI. 49016) (McCLELLAN,MI)

Voice of Democracy (Communism and the U.S.): 7410, 12/20, 0410-0500, SIO=322, and 7420, 0500-0558, SIO=433-322. VoD players representing the "Voice of Communism" live from Moscow. Host was a pretty convincing propagandist, but he had a Russian wimp side-kick, who announced an essay contest, "Why radiation is not a picnic", with entries to Box 482 (sic) BC,MI. (LOCHMILLER,IA) 7411.3 0449-0458, 7420.0 0458-0530+, 12/20, SIO=333. Station initially heard on 7411.3 with bad QRM. Anncment was made of freq change, and good reception was had on 7420. Took phone calls at (212) 283-9977. I called and spoke with the station for awhile. They stated they were not soliciting reports, and weren't QSLing. Gave freqs of 7410, 7420, 7430, 21470 and 21490, and gave P.O. Box 482 BC,MI as their maildrop (they must have meant 982!) (BAXTER,KS) 7420, 12/27, 2330-2340*, SIO=353. IDing as the "Vo the United States" (VoUS), intelligent sounding OM and YL anncrs were taking calls via a loop and reading letters from listeners. (ROBERTS,OH) 7420, 12/28, 0343-0510+, SIO=343. VoUS played rock and soul mx and took calls from the E. Coast. One caller didn't know he had called a pirate, and had called the loop to "pet off" (?). A very eloquent station! (ROBERTS,OH) 7420, 12/28, 0345-0513*. Calls taken via a NYC loop #. This night using the Voice of the US as ID. (MARTIN,DE) 7420, 1/2, 0423-0435*, SIO=343. Vo Comm. gave loop #, but no one called. Anncrs talked abt the Russian revolution, had (supposed) conversation with a Cosmonaut aboard Sputnik, discussed Russian weather, and answered mail. Mildly amusing. PSE QSL. (POLLOCK,NY) 7420, 1/3, 0323-0401*, SIO=323. Program consisted of phone calls and answers to letters. DJs were two OMs and a YL with alleged Russian names. (POLLOCK,NY) 7420, 1/3, 0216-0401*, SIO=444. Vo Comm./ Vo Dem with PCs with very weird program. Hard to tell if they were serious of not. Said they felt sorry for Americans and plugged Moscow library and bowling alley. (RENINGER,NY) 7420, 1/3, 0154-0215, SIO=333. YL and OM extoling the virtues of life in Russia. I called and talked to them. The OM anncr told me I should sell the meter on my radio and send the money to Russia. A very entertaining production. (ALLEN,OK) 7419, 1/15, 0249-0330 f/out, SIO=242. Spoof of R. Moscow with phone calls. Very amusing program. (BIGLEY,TX)

Voice of Laryngitis: 15050.5, 1/1, *2200-2230*, SIO=242. On with rock mx and OM anncr. Hrd BC address at 2208. At 2210 several OMs and at least one YL did a program about 1983 with bits of mx throughout. Phone call from op said between 30 and 40 watts. Great way to start the New Year! My 15th NA pirate. (ARTHUR,HI) 15050, 1/1, 2201-2231. Very nice program of comedy and mx. Signal peaking at S9, but subject to deep fades. (SANTOSUOSSO,FL) 7433, 1/1, 0429-0500, SIO=333. S/on with chipmunk rock song and a big band tune, "You're getting to be a Habit with Me". '1983 In Review' by Bull Bruiser, sponsored by Friendly Freddie's Budget Burial heard. One ID said "this is the Voice of Laryngitis brdcsting from a shrimp boat off N.A." (DeWHITT,OK) 15050, 1/1, 2200-2230, SIO=433. Repeat of 0430 brdcst, which included a DX program with a feature on KQSB. (DeWHITT,OK)

Voice of the Pyramids: 6230 from 0600-0615, 6260 0625-0630, 6290 0630-0640 all on 12/25, SIO=333. Good signal for their heavy metal show with mx by Queen, Black Sabbath and Judas Priest. (LOCHMILLER,IA) 6230v, 12/25, 0610-0640*, SIO=454. Heavy metal mx with varying freq. Said power was 100 watts for this Christmas and New Year special. (ROBERTS,OH) 6288, 12/26, 0635-0638, SIO=333. Rock mx and anncmt as "member of the BBI Radio Network." (BIGLEY,TX)

WQIS: 7428, 12/23, 2232, SIO=333. Rock mx and had several CW IDs. (MORRISON,ME)

NORTH AMERICA — F.M.

KPRC: 91.5, 12/19, 0545-0715*, SIO=353. Callers talked about usual subjects (war, Mid-East). Mx by the Singing Dogs and the Meowing Cats. Ad for the film "Shoot out at Armagedon Corral" starring Reagan and Andropov. (SPREMO,NY) 91.5, 1/9, 0404-0651, SIO=353. Usual talk with calls. Paralleled on 1616 and 6275. (SPREMO,NY)

Stereo Nine: 91.9, 12/12, no time and 12/13. Rock mx from the 50s. 91.9, 12/25, 0609-1037, SIO=353. Ed Armstrong and guests Marconi and Neil Scott played Zappa mx and a tape called "Bootleg Top 40". (SPREMO,NY)

WHOT: 91.5, 0922-1024*, SIO=454. Relay of a legal station (this seems to be the new fad here) until 0930, then rock mx. They were putting in new equipment tonight. (SPREMO,NY) 91.5, 12/17 *0530-0820, SIO=454. 50s and 60s mx with calls via (212) 432-9979. Christmas was tonight's theme. (SPREMO,NY) 91.5, 12/24, *0630-1127, SIO=454. Hosts Jim Hasium and Hank Hayes played Christmas mx and took calls. (SPREMO,NY)

CENTRAL AND SOUTH AMERICA

La Voz del C.I.D.: 7352.5, 12/11, 0200-0215+, SIO=333. Still on this freq despite terrible QRM from WRNO. Anti-Cuban talk by OM with rock mx between segments. ID of R. Antonio Guiteras. (ZELLER,OH) 7400, 12/11, *0300-0315+, SIO=232-333. S/on after VOA s/off. Usual ID and IS and prgm berateing Castro. IDed as R. Frank Pais. QRM from carrier on 7397. (ZELLER,OH) 5106, 12/31, 0315-0330+, SIO=343. EE rock and SS pop mx with usual OM anncr. IDed as R. Ignacio Agramonte. Heard well in Trinidad, but not a local xmitter. (ZELLER,TRINIDAD) 7464.2, 12/13, 2245-2300+, SIO=222. IDs as R. Antonio Echeverria with usual IDs, IS and 2001 theme mx. Must use LSB ECSS to copy. (ZELLER,OH) 7464, 12/26, 0335-0345, SIO=433. Full IDs in SS. Political commentaries and comedy routines. (CHERNOS,ONT)

La Voz de Sandino: 6210, 12/25, 0155, SIO=433. Special EE Christmas message by a YL anncr. She was also noted on subsequent brdcsts. (LOCHMILLER,IA) 6208, 1/9, 0454-0522, SIO=332. Heard in SS, EE, and Miskito. EE program began at 0511 for 7 minutes for the Atlantic Coast of Nicaragua about why the Nic. govn't fears and therefore persecutes the Indians and other minorities. (DeWHITT,OK) 6210, 12/27, 0049-0115. No ID heard, but mentions of Nicaragua. (PASCOE,WA) 6205, 1/11, 0015-0145+, SIO=444. Usual program of Anti-Sandanista talk with echo and sound effects. Latin folk mx and inst. mx. Discussion of FMLN for some reason. Nice signal having moved down almost into the 49 m.b. (ZELLER,OH) 6205, 1/4, 0100-0103, SIO=352. EE speech about fighting Lenninists and winning. Overmodulated as usual. (SPREMO,NY)

Radio Miscus: 6965, 12/10, *2230-2300*, SIO=242. S/on with "Got Me a Pretty Woman's Love", and the Davy Crockett fife and drum song. OM in Miskito with Anti-Sandanista talk. Folk, guitar and kazoo mx. Clear and sometimes rapidly repeating IDs. (ZELLER,OH) 6965, 12/25, 2318-2330, SIO=444. SS mx and solid IDs. (MORRISON,ME)

Radio Quince de Septiembre: 7410 USB, 1/4, 0315-0337*. Very faint, not heard on 7 Mhz during this brdcst. S/off with Nicaraguan anthem. Not heard here same time following night. (It's sure getting crowded around 7400!) (HORVITZ,RI) 6900, 1/7, 0507, SIO=252. ID in SS. (SMITH,TN) 5570 // 5920 // 6800, 1/10, 0500-0515+, SIO= 343,232,222. Usual Anti-Communist and anti-Sandanista talk. IDs and martial band mx. 5570 is by far the best of the three freqs. IDed as "R. Quince de Septiembre. La Voz de Democratica Nicaraguente." (ZELLER,OH) 5570, 1/10, 0242-0253, SIO=333. SS by OM & YL with band mx between segments. (MORRISON,ME)

Radio Venceremos: 7030.8 // 6583.1, 1/2, 0240-0323. Very muddy sound on both freq, though 7031 was slightly stronger. No jamming or freq hopping. Both still there when checked at 0412, s/off at 0415*. Carrier gone on 6583.1 within a minute, but stayed on 7031 till 0418, so one freq not just a spur of the other. (HORVITZ,RI) 7019.8 // 6587, 1/3, 0255-0302. (HORVITZ, RI)

EUROPE

Radio Freedom Int'l: 15040, 11/13, 1134-1200. Heard by the CANAVDX DXpedition participants. Fair to poor reception with QSB. IDed as "you have been listening to R. Freedom Int'l...xmitting on 15040 kcs in the 19 m.b....97.5 Mcs...this prgm... Edinburgh, the capital of Scotland...67 Elm

Row, Dept. R, Edinburgh EH7 4AQ, the U.K...." and off or lost at 1200. This was heard on the 2nd Sunday of the month, so maybe they have switched from 1/3 to 2/4th week 0900-1200. QSL card rcvd in 22 days confirming log and from Scotland from DJ Allan Kidd. Power at 30 watts! (KRUEGER,FL) Great catch Terry! Card is featured in this month's NASWA QSL column.

REST OF WORLD

Radio Spark/ Voice of the P.L.A./October Storm: 9268, 1117-1120*, 12/22. Chinese with brief mx before s/off. Station began during the cultural revolution and is believed to be located in the E. China Sea. (PASCOE,WA & JADX via SCDX via RIB)

UNIDENTIFIEDS

UNID: 1616, 1/9, 0430-0514, SIO=555. This station was making one liners about KPRC on top of them. Their signal was distorted and they were using a fake Oriental accent. (YODER,PA) (see KPRC's loggings) UNID: 1619, 12/15, 0515-0545+; 1632, 12/16, 0200; 1630, 12/18, 0100-0600+; 1623.5, 12/31, 0400-0600. All these brdcst consisted of instrumental and folk mx of either Greek or Turkish origin. No EE was spoken, but on the 12/16 and 12/18 xmissions, there was some foreign lang. anncment given. My idea is that this may be a rebrdcst of tapes from some ship off the coast. (MARTIN,DE) 1622, 12/11, 0525-0526+, SIO=343; 1622, 12/31, 0520-0805, SIO=321; 1622, 1/1, 0505-0645; 1622, 1/2, 0620-0653, SIO=111. These all seemed to be the same stn with ethnic (poss. Greek) instrumental mx (flute, guitar) and chanting voices. Long Is. NY has a large Greek population and another DXer has heard it may be in the NYC area. Definitely pirate as no IDs in EE--very little talk at all. On the 1/1 brdcst there seemed to be ethnic comedy. (CHERNOS,ONT) UNID: 1616, 1/1&1/3, 0500. Middle Eastern mx and anncments. Always after 0500. (STEPHANY,NY) UNID: 1620, 1/14, 0410. Mx heard for approx 5 minutes, then off. (MARTIN,DE) UNID: 1649, 1/1, 0530+. SS pirate, very weak, Latin mx. (STEPHANY,NY) UNID: 3885.8, 12/25, 0320-0334+, SIO=322. Christmas mx only. No anncments. (ALLEN,OK) UNID: 6824/6853, 12/25, 2313. SS stn playing piano mx with chirping bird. Also heard 1/7 on 6824 and 1/10 on 6824. (MORRISON,ME) UNID: 6900, 1/8, 0522-0527, SIO=243. Speech by OM in SS. (MORRISON,ME)[prob. Quince de Sept.] UNID: 6900, 1/1, 0230-0238, SIO=354. Song "Photograph". Anncr gave ideological statement about 1984. No ID, may have been KNA. UNID: 7428, 12/23, 2230, Song "Big Country" heard. (LOCHMILLER,IA) UNID: 7430, 12/21, 0230-0245, SIO=212. Old sixties mx and classical mx. Maybe RFI? (LOCHMILLER,IA) UNID: 7430, 1/9, 0210-0220. Very weak country mx heard. (LOCHMILLER,IA) UNID: 7430, 12/18, 0650-0700, SIO=111. Barely audible rock mx. (POLLOCK,NY) UNID: 7431, 12/24, 1945-2035+, SIO=252. Christmas carols interspersed with rock mx. (ROBERTS,OH)

CONTRIBUTORS

Kirk Allen, OK.; NRD-515.... John Arthur, HI.; ICF2001, R388.... Arty Bigley, IL.; FRG7700.... Tom Brennan, IN.; FRG-7.... Saul Chernos, ONT.; TRF.... Carl DeWhitt, OK.; DX200.... Frank Decker, NY.; FRG7700.... Joseph Farley, IL.; R7A... Robert Horvitz, RI.; R7.... Dave Houde, VA.; DX302.... Terry Krueger, FL..... Grant Lochmiller, IA.; FRG7700.... Scott McClellan, MI.; R70.... Jon Morrison, ME.; RF2600.... John Pascoe, WA.; RF3100.... Mike Pollock, NY.; RF2200.... Arthur Pyn, DC.; R390.... Andrew Reninger, NY.;.... Fred Roberts, OH.; R2000.... John Santosuosso, FL.; FRG-7.... David Schmidt, DE.; HQ180A.... Woodson Smith, TN.; FRG7700.... Alfred Spremo, NY.; FRG7700.... Nolan Stephany, NY.; R392.... Keith Thibodeaux, LA.; R7A.... Paul Walkendorf, MI.; DX160A... Andrew Yoder, PA..... George Zeller, OH.; R70.... and Bill Martin, DE.; NRD-515

This has been a tremendous month for contributions and activity. I would like to thank everyone for the great support of the column. However, as a result of all the information, I have had to compress the type for certain loggings to keep within my limit of 7 pages. I wanted to include everyone's data, but without the small type I would have run about 2 pages over my limit. Thanks for your understanding about this situation.*****Since space is at a premium, I'll put on hold my "1983 in Review" segment***** I received a phone call and letter this past month from a member active in low-power broadcasting who is interested in exchanging tapes with other active stations for broadcast. He indicated there would be no cost other than the tape you send out and postage expenses. The main purpose is to get music spread out and give stations larger audiences. The rules he sent included: (1) tapes will be reused throughout the net (2-3 weeks) (2) each station must contribute a new tape (3) each show is to be 30 minutes (4) each station must pay for postage when they send tapes out. For further info, I can forward letters from interested parties on to this group. I believe that they also sent Darren the same info, so he should be able to perform this service too.*****Well, several of you caught me last month in an obvious slip-up on my part. I listed 6080 as an UNIDed playing country mx. As was pointed out to me by Pollack and Pascoe, this is CKFX in Vancouver, a relay of CKWX which brdcsts on 1130. The SW really uses 100 watts, and is often heard here in N.A.*****Another blunder on my part last month occurred when I listed George Zeller's logging of R. Caroline as 96.3 FM when in actuallity it was 963 kcs on the MW band. Sorry George.***** Saul Chernos pointed out that the UNID heard by Kirk Allen in the Dec column on 4530 is a third harmonic of KAJJ in Arkansas which has an AM outlet on 1510 besides the FM outlet on 106.3. This was heard via Hauser's W.O.R. program on WRNO. Saul also adds that Hauser said there was a stn on 102.6 in the St. Pierre and Miquelon island area that appeared to be a pirate operation.*****

THE HISTORY OF OFFSHORE RADIO

By David Markwick

SWEDISH OFFSHORE BROADCASTING

There have been approximately 40 radio stations broadcasting from ships and structures in international waters off different countries around the world. The first station most people think about when offshore radio is mentioned is Radio Caroline, but this is misleading. Caroline first went on the air March 27, 1964. But as early as 1958, the first offshore radio station, Radio Mercur, broadcast to Danmark on 93.1 MHz FM.

Radio Mercur's vessle was a converted stone fishing boat named Cheeta. Programs were usually recorded on land and taken out to the ship, where they were broadcast by a 20 kw erp transmitter from a directional aerial.

In 1961, a new boat was purchased and named Cheeta II. Both ships transmitted to different parts of Danmark. An experimental Dual Channel stereo transmission was tested in February, 1961 using both transmitters.

In 1962 Radio Mercur merged with DCR, a station which had been formed from a breakaway group in 1961. DCR's ship The Lucky Star replaced the Cheeta, which was sold to Mrs. Brit Wadner, operator of Mercur's Swedish program, "Skanes Radio Mercur."

On July 31, 1962, Anti-Pirate radio laws came into efect, and as required by law Radio Mercur prepared to close down. Cheeta II was off the air by July 10, and the Lucky Star by July 31. However, Lucky Star remained at sea and on August 13, 1962, transmissions restarted. Police raided the ship on the August 16, and were pleased to discover that the Lucky Star was an unregistered vessle. The ship was then escourted into port.

With Mrs. Wadner's purchase of the old Cheeta from Radio Mercur, Offshore radio came to Sweden in 1962. Even with the anti-pirate law, Mrs Wadner kept her station, known as Radio Syd, on the air. Later, she was to purchase the Cheeta II, including the 7 kw transmitter. Radio Syd became extremely popular and a Club Radio Syd was formed with over 10,000 members.

By October, 1962, Mrs. Wadner was fined for breaking the law. In may 1963, eleven advertisers were fined for buying air time on Radio Syd. By March, 1964, and again in August of that year, Mrs. Wadner was before the courts. On her second appearance she was sentenced to one month in jail for refusing to shut down Radio Syd. Under Swedish law a person can carry on their profession while in jail, so Mrs. Wadner recorded programs on location in the Hinseberg prison.

During a storm on the 17th of September, 1964, the Cheeta went adrift and ran aground near Malmo, Sweden. Holed below the waterline she was taken into Malmo for repairs. Unfortunately, someone took to long to decide what repairs to make to the ship; the Cheeta sank in port on October 7th, 1964.

In January of 1966, a thick ice pack forced the Cheeta II to leave her anchorage. Radio Syd never returned to this former location, and set course for England to replace the British pirate ship Mi Amigo which ran aground and was being repaired.

Time passed and after various court challenges, the Cheeta II made her way via Spain, Morocco, the Canary Islands, and somtime later to Gambia

MNI TNX FER RPT, HPE CUAGN VY 73

on the west coast of Africa. It was here that Radio Syd was granted a license to broadcast leagally on 910 KHz. The station is now landbased, and the Cheeta II is a floating restaurant in Bathurst Harbour.

Today, Radio Syd's theme song of "As long as the ship will sail" remains unchanged, but it looks as if Cheeta II's seagoing days are over.

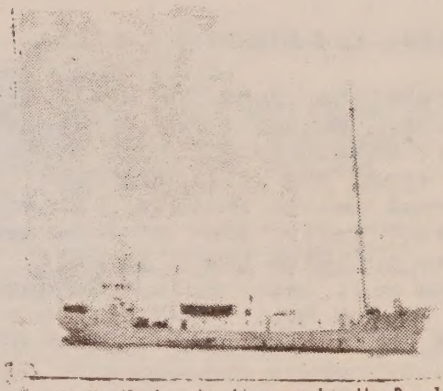
Another station to broadcast off Sweden was Radio Nord. In 1960, the hold of this station's ship was converted into a studio, transmitter hall, and quarters for the staff. It was then sailed to Copenhagen for erection of the antenna mast. Two 10 KW Continental Electronics 316B crystal controlled transmitters were flowen in from the USA in 6000 parts and assembled in Danmark.

On Dec. 20, 1960, the ship was christened the Bon Jour, and then left Copenhagen bound for her anchorage near Stockholm. The captain of the Bon Jour was evidentally not fully qualified for his job. When he finally anchored the Bon Jour at what he thought was the correct place, the transmitter was switched on and a blue flash came from the aerial. Everything went dead. Since the ship was in the wrong location and had no radio contact, it took the supply boat until Chistmas Eve to locate it. More trouble was in store however; on Christmas Day, the crew abandoned ship thnking the mast was going to collapse in the heavy seas. Bon Jour was still in one piece on December 27th, and after minor repairs (and a new captain) Radio Nord was testing on 606 kHz.

One year later in December, 1961, Radio Nord was again threatened by a storm. A decision was made to sail north in an attempt to avoid the squall. Transmissions ceased at midnight as the vessle (rechristened Magda Maria) neared Sweden as the crew feared they were entering Swedish territorial waters.

With the law outlawing offshore radio taking effect on August 31, the station closed on June 30th, 1962. A prospective purchaser had been located for the Magda Maria, and the ship was destined to resurface again as the Mi Amigo.

Next month in part II of this article on offshore broadcasting, we'll look more toward the North Sea and the start of broadcasting from ships and other structures here.



Radio Nord's broadcasting vessle, the Bon Jour.

NEW PIRATE FOR ENGLAND COMPLIMENTS OF THE UNITED STATES

By Fred Vobbe

A new pirate ship left Fort Lauderdale, FL recently, to anchor alongside Radio Caroline off the British Coast.

The station, which will be called LASER 730, was expected to arrive off Kent last December 15th. It is not known if the ship is in place at the time of this writing.

The first port for the ship will be the Bahamas. It will then dock in Spain before leaving on the final leg of the journey to the North Sea.

LASER 730 is American backed, and will feature only U.S. personalities keen to make an impression on the European Market.

It's music will be CHR - Contemp Hit Radio - or top-40. which is very popular on the FM front in the U.S.

Rumors of the venture have been circulating in the British radio biz for the last 6 months, but everyone has been taking it with a grain of salt.

Although it is difficult to confirm, a British newspaper believes that the original backers of Radio Caroline of 1980's is behind the venture.

The mast is 354 feet high, and LASER 730 is hoping to achieve a power of 100 thousand watts!

In related news, Radio Caroline went commercial on Dec. 15. RC will carry 6 minutes an hour of advertising. Caroline is now 24 hours on their AM frequency of 963 kHz.

After its recent battle with student broadcasters over their joint occupation of 963 kHz, Caroline has offered to send engineers to help student stations switch to a different frequency. The frequency of 963 kHz in England is much the same as the 88.1 to 91.9 MHz band in the United States.

RADIO LIBERATION

"Greetings from the staff of Radio Liberation. We are a new pirate station that will be on the air once or twice a month, from 9pm till midnight (EST). Our format will include alternative newscasts, talk, and an international community bulletin board as well. Musically we will air Folk, Reggae, and sixties Rock & Roll. We will broadcast on 3885 MHz or 3880 MHz. Our coverage area will include New England and New York state, or wherever the airwaves take us. Finally, we encourage old and new pirate stations to start using 75 meters AM - it's wide open and besides our station there's room for more pirate activity around here. Happy New Year and keep your ears tuned to 75 meters for Radio Liberation - the station of alternitive culture in Amerika."

PIRATE IN BISMARK!

Dear Sirs,
Just thought I'd let you know that the UNIT 882 has been operating in stereo on 100.00 MHz FM in the Bismark, ND area for about 13 months now. Our power output is 2 watts into stacked horizontal turnstyles.

The Pirate Unit 882 was created after many of the local broadcast stations switched from music to DJ-BSing.

The 882 specializes in continuous, uninterupted adult contemporary music, with the exception of the station ID. have had a lot of favorable comments on the station's programming.

The 882 is planning to file for a class D educational license in the following months, but until then we will continue to broadcast at random times.

CLASSIFIED ADS

Free to members. Deadline Feb. 20 to MB.

FOR SALE

COLLINS PRC-47 backpack transceiver, USB 2-12 MHz in 1 kHz increments. 100 watts output through integral antenna tuner, 24v DX or 115vAC power, excellent condition, $525.00 ppd. ELMAC AF-67 10-160m VFO or Ital Ham xatr, AM/FM/CW, 40 watts, $69.00 ppd. Hammarlund HQ 180 AC receiver, matching speaker, stored-unused for 16 yrs - mint. AL SMITH, PO Box 280, Wamsutter, WY 82336.

Realistic DX 160 communications receiver. .15 to 30 MHz coverage. 110 or 12 v operation. Modified with recorder out jack separate from speaker voluse. $75.00 or best offer.

CBS 4440A "Audimax" broadcast compressor. Very good condition. Used to reproduce loudness in BC signal. Use it with Gates limiter for ultimate staton. $250 firm.

Gates "Solid Statesman" BC limiter. A very good unit for controling AM modulation. Offset for -100% / +125% modulation control. Used by a majority of AM BC stations. $250.00 firm.

2 Gates Criterion compact cart machines, playback only, $250 each. 1 Gates Criterion Record/Play cart machines, $250. Mono, very good condition. All 3 machines for $550 (retail for $500 apiece)

Fred R. Vobbe, PO Box 127, Temperance, MI 48182.

SONAR Transmitter for old marine band (2-3 MHz). Solid state except for driver & push-pull finals (12DQ6A). AM modulation, operates on 12V & can hold crystals for up to 6 freqs. Worked when removed from service, & savaed for possible pirate and 180 mtr use, but lost interest. Sonar is still in business in FL, so I assume manual and parts available. $75.00 + UPS. ALLIED SX-190 Receivers, good condition (SWBC only) - $135.00 + UPS. DRAKE SW-4A Receiver good (SWBC only) $125.00 + UPS. DYMEK DR-33C Digital Receiver, (50 kHz - 30 MHz) with extra collins mech. filters, rack mount & cabinet - $800.00. FRG-7 Receiver; damaged in fire but repaired by Yaesu and fitted with new cabinet. Wroks great as back up Receiver, however filters "DI" position doesn't work - despite $105 repair bill, $100.00 + UPS. COLLINS 51J4 with 3 & 6 kc mech. filters in original Collins cabinet. $300.00+UPS, to M.J. Stutterheim, 510 Main St., Roosevelt Island, NY 10044. 212-838-5182.

IN MEMORIAM

It's with a great sense of loss that we report to you the deaths of two of the SWL Hobby's champions.

Larry Brookwell, 80, passed away on Dec. 23, 1983 from congestive heart failure. Larry was founder and president of the Int'l DXers Club of San Diego, the future of which is still undecided.

John Clements, age 33, died from a sudden heart attack on December 24, 1983. John was the founder of the Long Wave Club of America, and active in IRCA, ANARC, NRC, and SCADS.

THIS ISSUE

has the largest circulation of any before it. At least 50 people sent in for sample copies of THE ACE in January, largely because of WDX Radio in NY, and Popular Communications magazine. Unfortunately, our supply of January issues was depleted, requiring dozens of people to patiently wait for the Feb. issue. Too all of you who wrote, thanks for your letters. I hope you find our organization of interest and that you'll soon join our ranks. Good DX to all.

EUROPEAN REPORT

By Podney Sixe, Cornwall, England

RADIO NEPTUNE: 2 Lawrence Road, Eaton Ford, St. Neots, Cambs, UK was noted for the first time on Dec. 18, 1983 from 11:50 (tune in) to 12:10 UTC sign off, on 7365 kHz. Reports were requested. After the broadcast, Neptune was asking for on the air QSO's (contacts) but I heard none myself.

RADIO ALBATROSS: PO Box 41, 7700 Dedemsvaart, Holland, were noted momentarily in amoungst the terrible QRM at 09:30 on Dec. 26, 1983 on 7353 kHz. An english ID was given my a German accented DJ.

RADIO WAVES INT'l: PO Box 130, 9250A Rue Ilmalmaison Cedex, France, noted at 09:38 on Dec. 26, 1983 on 6275 kHz with a dedication for yours truly given out by a DJ in english who had a French accent.

RADIO KRYPTON: 134 Eastworth Road, Chertsey, Surrey KT16 8DT regularly heard from 11:00-13:00 every sunday on or around their announced frequency of 6265 kHz, and soon a parallel on 7710 kHz.

EAST COAST RADIO INT'l: 24 Joyce Road, Drumcondra, Dublin 9, Ireland made a return to the airwaves on Dec. 18, 1983 after a short abscence from 06:00 to 09:57 on their usual frequency of 6210 kHz.

WEEKEND MUSIC RADIO: 42 ARRAN CLOSE, Cambridge, were noted with extended broadcasts on both the 25th & 26th of Dec. '83 on 6230 & 6240 kHz until s/off at 16:20 UTC. They were also noted on Dec. 27 until 17:20 on 6240 and 6305 kHz.

MAIL DROP CLOSED

Don't bother sending any reports to 32 Victoria Road, Salisbury, Wilts. This well known accommodation address was recently visited by the authorities on Dec. 9, 1983, who were inquiring about Britian Radio INT'l and Radio Avalanche. The use of this address has now ceased, leaving several stations temporarily without an address.

LISTEN FOR THIS ONE

RADIO FREEDOM INT'l: Dept. R, 67 Elm Row, Edinburgh Scotland EH7 AAQ, generally broadcast on the 1st & 3rd Sundays of every month from 09:00-12:00 on 6230 kHz. Recently, however, they have added a parallel outlet on 15040 kHz which has already been heard in the USA by several DXers.

WE KNOW YOU!

WE KNOW THAT YOU'RE INTELLIGENT AND THAT YOU WANT INTELLIGENT SWL BOOKS ..

And we want you to know that we've got the type of books you want. If you've been anywhere near a radio in the past few months, you've heard the excellent reviews they've gotten on programs such as "DX Party Line," "Media Network" and many others.

Tune In the World by Ken MacHarg. MacHarg, a 25+ year veteran SWL profiles over 70 SW stations. Packed with info on programs, histories, personalities and more. 110 pp. $9.99

Netherlands World Broadcasting by Robert D. Haslach. The history of Radio Netherlands by a former RN announcer and producer. A serious study that traces the roots of this popular station. Not for the casual SWL. 105 pp. $9.99

Each (paperback) book $9.99 plus $1.50 postage ($2.50 outside the U.S.) Mention this publication and order both for just $17.48 postpaid. (PA res. add 6% sales tax). US$ on US bank or money order to Miller Publishing, 424 West Jefferson Street, Media, Pennsylvania 19063.

PUBLIC NOTICE

Arnold Toynbee's conception of the colonization of outer space as depicted in the movie "2001 A SPACE ODYSSEY" on the ability of science to bring every dead molecule of every human body of history back to life on the gigantic planet of JUPITER.

We beg the people of this community to accept us as we have been denied acceptance by media and press.

Please write us at P.O. Box 42678 Phila. 19101 (U.S.A.) and TUNE 6.25 Megacycles (48 meters) short wave (Saturday nights, midnights).

WHAT'S THIS?? DEPT.

The above public notice has recently began to appear in the center city of Philadelphia, Pa. These "stickers" have showed up almost everywhere! On USA Today boxes, telephone poles, train & bus stations, even on Communist Workers Party newspaper boxes. Mr. G. Primavera, who brought this interesting announcement to our attention, has been monitoring 6.25 MHz and says he has not heard "them" yet. He's not sure if this station would fall under the classification of pirate or clandestine. Let's play close attention to this frequency in the weeks ahead and see what (if anything) shows up.

* * TECHNICAL INFORMATION * *

By: Frederick R. Vobbe

To start off this series of articals lets look at PROCESSED AUDIO.

Listen to your local broadcast station. Have you ever wondered how they are able to sound so loud and not over modulate? The answer to question is that the station processes audio signals into the transmitter, thus keeping their transmitter within the F.C.C. modulation limits and keeping the level up where it is heard by the listener.

There are two basic pieces of gear that are used a COMPRESSOR and the LIMITER. Think of a compressor as a device that brings up the level when it is too soft and takes it down when it is too loud. This way passages of voice or music don't get lost, and it adds a Dynamic Loudness. Loudness is the ability of the signal to be heard at weak levels. Hams that QRP SSB or AM need loudness else they are buried in the noise. Once you compressed the audio you can now add Limiting. Think of Limiting as an electronic wall. If you shout in the mike the Limiter will not allow anything more than what you have adjusted into the transmitter. This way you don't over modulate.

Lets look at Limiting first. The diagram on the next page shows a basic broadcast limiter. This is the type I used at our broadcast station. It is made up of 5 sections. The 1st amp is the input amplifier. Audio is fed in J1 (RCA Pin Plug jack). This amp will buffer from your equipment to the the rest of the circuit. The output is then fed to a 2nd amp which serves as a brightess control. It is then fed to the 3rd amp which is the limit amp. The signal if fed across the diodes. You will note the 10K pot on this circuit connected to the power supply. This sets an offset for the limited signal. In broadcasting stations are allowed -100% & +125% peaks. Trimming this control will result in getting the peaks at this limit. This pot is also optional. The signal is then fed to the 4th stage which acts as the driver. The 5th stage is the Line Amplifier to the transmitter. The desired level to the transmitter is adjusted via the 10K pot on the input to the amp.

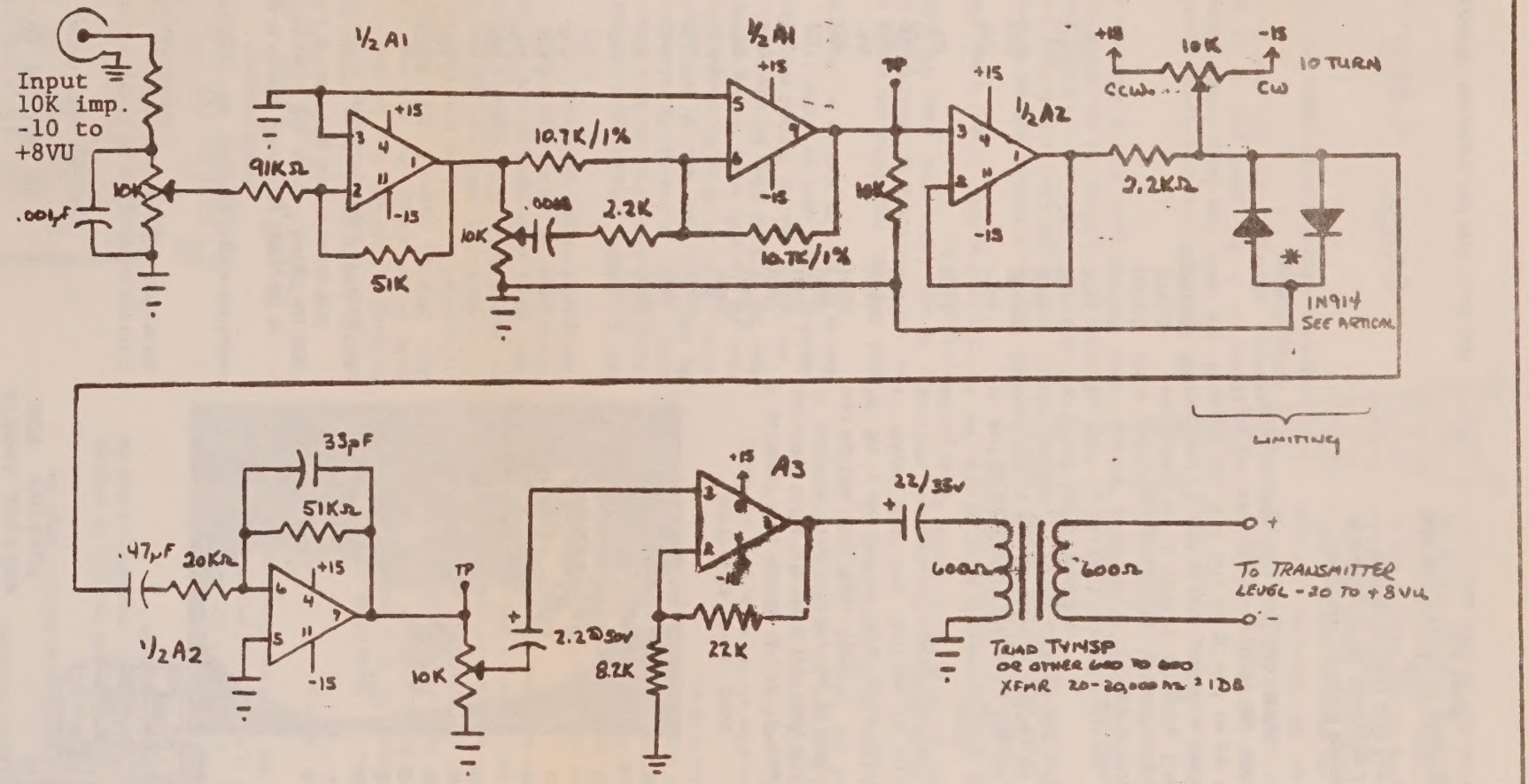
When you build this circuit, if your budget will permit, try to use tantalum capacitors and 5% resistors. Both are available from Jameco Elect. I would guestimate this whole circuit should cost about $25.00 to build. In selecting the diodes get a bargain bag at Radio Shack or Jameco. Usually they cost $1.00 for 100. Using your Ohm Meter select 2 diodes that have the same Forward and Reverse readings on the meter, or at least close. This will improve performance.

You need to build a +15/-15 power supply. Use LM340T/LM-320T-15 tab type regulators. A 110VAC to 38VAC/CT transformer works the best into a full wave bridge. Use 330 mf @ 50 volts on the input to the regulator and a .1 mf on the output.

After you have built the unit, we can now set it up on the air! Turn the Line Amp, Input, & Brightness all the way down. The offset should be half way. Using a scope to monitor the modulation, put a tone or program at the input to the limiter and turn up the input and output slightly. Increasing the input till you see that you can not increase modulation. If you start to overmodulate, back off the Amp a bit. Proper limiting occurs when you have reached the threshold when you can no longer see any more gain on the output. Once you have found this point increase it 1/16th more of a turn. We will come back to this in a moment. Apply normal type programming to the transmitter and turn up the Line Amp till you see -100% peaks then back it off a bit. If you are able to measure +125% & -100% modulation, adjust the offset so your peaks are roughly -90% & +120. You will have to keep going between the Line Amp and the offset to find a good operation position. The Brightness control is used to add "highs" if your system lacks good high frequency response, however do not use it to excess!

The proper input to the Limiter is a combination of reaching the point of limiting and noticing distortion. As a rule of thumb, turn up the input to the point where you hear distortion then back it off just a tiny bit. Keep it high but not to the point where it sounds "buzzy". Watch the output at all times and trim it when needed. You may notice as much as 7% distortion but the average listener listening on a communications receiver can't tell it.

A few notes. Changing the antenna or an impedence change in the antenna circuit will effect modulation. Omit the 10K pot for the offset if you don't desire non-symetrical modulation or can't measure it. Omit the 10.7K between pins 1 & 6 of IC-1 if you don't want brightness, along with the 10K pot, .0068 mf cap, and 2.2K resistor. If you use this for Ham RTTY or Data, don't over limit the signal.



A1, A2 = TL074 8 pin dip
A3 = TL082 8 pin dip
D1, D2 = 1N914 Selected Diodes. See artical

REVISIONS			
NO.	DATE	BY	BROADCAST PEAK LIMITER
1			WITH HF CONTROL & +125%
2			OFF SET CONTROL & BRIGHTNESS
3			DRAWN FR — SCALE — MATERIAL
4			CHK'D — DATE 1/2/84 — DRAWING NO
5			TRACED — APP'D

VERIED RESPONSE - your center for QSL information and comment...

editor: John T. Arthur

15-2700 Kala St
Pahoa, HI 96778

(808) 965-8995
almost anytime
NOT collect

Don't Send to MARS

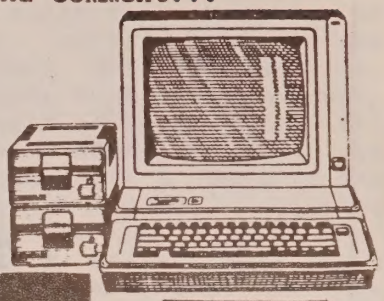
"...the Survival Tips article (Dec'83 VR) was good, but how can I avoid MARS frequencies if I don't know what they are?" wrote several readers.

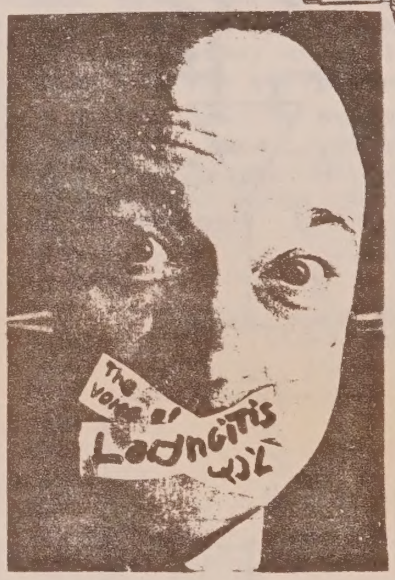
My error; I hadn't considered the lack of a readily available list.

A good article appeared in December Monitoring Times, but by geographical area not frequency. One source I thought was good proved almost useless. But I got help from sources inside MARS. This list is by no means complete -- if you know of more, please let me know.

2220	6995.5	13825
2258	6997.5	13927
2259.5		13977
2813.5	7305	13985
	7311	13993
3237	7313.5	13996
3245	7315	13997.5
3289	7323.2	
3296	7324	14389.5
3299	7329	14390.5
3308	7360	14401
3311	7365	14405
3315	7377	14408
3347	7392	14441.2
	7405	14467
4006	7457	14469
4007	7527	14484
4008.5	7540	14528
4011.8	7545	14606
4012.4	7632	14664
4016.6	7633.5	
4018	7938	15712
4020		
4025	9047	19200
4030	9224	20118.5
4034.8		20740
4040.6	11407	20961.5
4043.8	11621	20995
		20995.5
4517		24573.5
4560		27987.5
4575		27995.5
4577		
4580		
4590		
4593.5		
4602		
4765		
4832		
4842		
4876.5		

Turns out you have to be careful everywhere, not just '...at each end of 40 meters.'





Music

Operators looking for inexpensive records will be interested in Sounds Good, Box C-34057, Seattle, WA 98124. For $1 they'll send you their next three catalogs listing a great assortment of domestic and imported cut-out LPs and selected new-wave singles. One of the best dollars you'll ever spend.

behind the box

A maildrop is a public service. I know of three presently operating 'drops catering to Free Radio stations; they were listed in the Free Radio Directory (Dec'83 A*C*E). I can only speak for one: Box 5874, Hilo, Hawaii 96720.

The Box is available for use by anyone desiring to receive mail at an address other than their own, for any reason. I, personally, guarantee that users will receive their mail and remain anonymous; nothing more.

I ask only two things of potential users: (1) that you contact me by mail before using the Box with a name and full address so I know what to do with the mail I receive, and (2) that I do not pay your postage. My postal costs are nearly $100 per year as it is, so I think that's reasonable.

Box 5874 is used by 12 Free Radio stations, a program syndicator, a technical consultant, an editing/proofreading firm that dabbles in publicity, a part-time transmitter builder who's somewhat unreliable, and a software marketing firm. I ask no probing questions; I make no value judgements. There is no charge for the service and, after all, you get what you pay for.

If for any reason you need a 'drop, feel free to write.

Please: no phone calls about this service.

Coming soon in Veried Response:
A New Look at the Absorbtion Effect
What to do about Grid Leaks
and
Obedience Training for Standing Waves
stay tuned!

VERIED RESPONSE

A*C*E

Soapbox

Florida's John Santosuosso comments on my editorial about the Free Radio Movement (Oct'83 VR):

"I thought ...(the editorial)... expressed very well the problems with media access in this country. My only reservation is with the use of violence to make changes in the system."

Let me clarify a bit: I do not advocate violence as a means to our end. I only mentioned it to point out that under our existing system we have the RIGHT to use it -- but only as a last resort, when necessary. Let's hope that dialog can achieve our goals. jta

more

and from Delaware, commercial broadcasting engineer Dave Schmidt steps upon the Soapbox to speak about the great FCC deregulation (c.f.: Oct'83 VR Soapbox):

"...when you get down to the fine print, nothing has changed. ...case in point, the FCC ... ruling of 'no more maintanence logs'...fine! I don't have to write down any more of the work I do on the station ... but I must now keep a Station Log showing all the work done. To me, the words have just been changed around, nothing more.

"I'd really be all for a spectrum in the shortwave bands for a true 'hobby band'... In all fairness, though, there would have to be some minor guidelines on the technical end... This would give everyone a fair shot at getting on the air, and let's face it, it wouldn't be all that many since a very small percentage of radio freaks are actually interested in this."

Good to hear from you again after all the years, Dave, and thanks for pointing out the FCC's word-shuffle game. I should have guessed that no bureaucracy would actually reduce red-tape if they could possibly help it. But hasn't the FCC decided that technology is advanced enough to lay the 'technical guidelines' on the manufacturers, just like ham radio, CB, AM stereo, etc.? jta

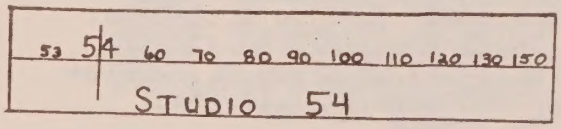
---

what do you think?

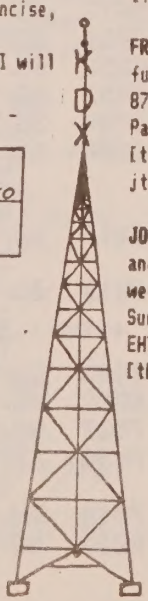
This column is always open as a forum for your opinion and comment.

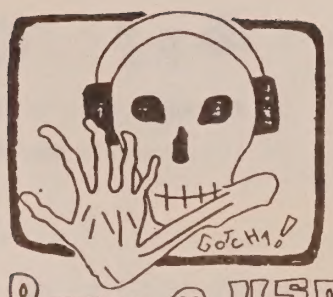
Please organize your thoughts to lead to a conclusion, be concise, and expect other comment directed at yours.

I reserve the right to edit to fit space available; however I will make every effort not to alter your original meaning.



The IRCA BX Monitor has recently carried reports of several stations operating in the Southwest, including: KDX 'Studio 54', KDNF-1210 and KFAT. The only one requesting reports is KFAT, via Box 5874, Hilo, HI 96720. However, the other two have verified correct reports accompanied by return postage. Reports for KDNF should be sent in care of: Steve Mittmann, 2248 West 37th Street, San Pedro, CA 90732, who will deliver them to the station. Kindly mention that you heard about it in The A*C*E.





under the door

the QSL report

KIRK ALLEN, in snowbound Oklahoma, writes that he received the following: a full data sheet from WOIS-7439 in about 138 days for three 20-cent stamps. Dr. Tom A Hawk, Phd, signed the verie for their July 4th broadcast. Radio Paradise Int'l-6900 sent an unsigned full data card for three stamps in 22 days. The new Voice of Laryngitis-7415 sent a full data card in about 33 days, signed by Genghis Huxley. Card showed a photo of a man with his mouth taped up -- on the tape is printed 'The Voice of Laryngitis QSL'. And his typewriter just spilled its coffee all over the desk.
[machines can't handle the caffine. jta]

JOHN T. ARTHUR, in Hawaii, got a full data photo-QSL of 'the gagged broadcaster' from The Voice of Laryngitis-15050 signed by Ghengis Huxley in nine days for return postage, stating 35 watts. NAm #15. Also, four more of KQSB's pretty blue full data form letters, #s 75, 77, 79 and 81, unsigned this time; Frank must have drank the six-pack before filling out the forms. For receptions 25Nov and 4, 5 and 11Dec. #81 said reduced power of 75 watts into a wet noodle. Was my 2nd-best ever reception! (I'll resist the temptation to brag about the weather.)
[when do you start the Hawaiian Svc, Frank? Oh, you have... jta]

DAVID CRAWFORD, down Florida way, was the recipient of a card and info sheets from 30 watt Radio Freedom Int'l (Scotland)-15040, in 35 days for a green stamp. Hrd at Canaveral Nat'l Seashore during CanavDX 5.
[it pays to co-op, don't it? good to hear from you again. jta]

FRED ROBERTS, in freezing Ohio, got two more for Christmas: a full data map card signed by Freda Hynes from Radio Dublin-6910 in 87 days for 3 IRCs and a f/d blank postcard (#51) from Radio Paradise Int'l in 57 days for four 20-cent stamps.
[tnx, Fred. Is Dublin still 80 watts? yes, I'd appreciate copies. jta]

JOHN SANTOSUOSSO, in chilly Florida, reports a full data card and info sheet from Radio Freedom International-15040 in three weeks for 3 IRCs, power given as 30 watts. Sked: 1st & 3rd Sundays, 1000-1200Z. QTH: RFI, Dept R, 67 Elm Row, Edinburgh EH74AQ, Scotland.
[this one is beginning to get common...hi! jta]

CUN30. 73FR, John

ACE

Spy Centre

A compilation of Spy-Number station loggings for the month of Feb. 1983

EDITED BY:
Lani Pettit
3412 Old Lakeport Road
Sioux City, IA 51106
U. S. A.

0000-0059

2707U GG/5,0041,12/27tu,VW
5015 GG/5,0007+,12/26m,LS; 12/27tu,1/8su,5L,//7404
7404 GG/5,0000,1/10,LP;1/8su 5L,//5015
9074 SS/"545"test,0000,1/10tu, LP,//11532
11532 SS/4,0018,date?,HR//9074
11532 SS/"545"test,0000,1/10tu LP,//9074

0100-0159

3090 SS/5,0100,12/11su,TA; 1/8su,5L
3445 SS/5,0112,12/15th,VW
4030 SS/5,*0116,1/8su,5L
6840 PH/x,0148,CIO2,12/4su,TA
7404 GG/5,0011,1/8su,5L//5015
7604 SS/4,0102,12/25su,LP//9072
7840 GG/5,0131,12/4su,TA
9074+ SS/4,0100+,12/10sa,VW;12/ 24sa,TA;12/25su,LP,// 7604;12/28w,5L,//11532
9325 GG/5,0146,12/24sa,TA
9450 GG/5,0104,"WP",1/8su,5L
10570 SS/3,0125-40,12/24sa,TA
11532 SS/4,0101,12/28w,5L//9074

0200-0259

4640 SS/x,0200,no grps,random count to 100,12/13tu, 12/15th,TA
4670 SS/4,0200+,12/5m,TA;12/18 su,HR;12/19m,LS
5810+ SS/4,0200+,12/18su,HR;12/ 24sa,TA//4670;12/30f,GZ
6800 SS/4,0200+,12/13tu,TA;12/ 22th,TA
6867 CW/5,0234,12/31sa,5L
6875 EE/5,0235,1/3tu,GZt
7376 CW/5, 0220,date?,GZt
7444 PH/x,0216,12/11su,KPA2,VW
7739 GG/5,0218,12/11su,VW
7784 SS/5,0232,12/25su,5L
7840 GG/5,0201,12/4su,TA,"AC"
7882 SS/5,0203,12/25su,5L
8062U GG/5,0210,12/11su,VW
8078 EE/4,0230,12/25su,VW
8873 CW/5,0204,12/31sa,5L
9075 SS/4,0209,12/4su,TA
9450 GG/5,0232+,12/11su,"BK", VW & TA

0300-0359

2690 GG/5,0330,12/21w,"OE",VW
4030 SS/5,0301,12/31sa,5L
4307 SS/4,0325,1/2m,5L,//4670
4670 SS/4,0300+,12/18su,HR;1/2m, 5L,//4307
4670 SS/"545"test,0302,12/5m,TA
5810+ SS/5,0330+,12/16f,TA;12/18su, HR;12/24sa,LP;12/27tu,5L; 12/30f,HR;12/31sa,TA;1/2m & 1/8su,5L;1/15su,LP..whew!
6810 SS/5,0334,12/25su,TA
6836 SS/5,0330,12/27tu,5L
6840 CW/5,0325-40,12/18su,HR;12/ 23f,LP;12/24sa,TA;1/1su & ; 1/7sa,LP;
7525+ SS/5,0304,12/10sa,TA;12/25su, 12/27tu,12/30f,12/31sa,1/2m, & 1/8su all 5L;1/15su,LP
8430 SS/4,0312,1/2m,5L
9074+ SS/4,0300+,12/25su,TA;12/27tu, 5L;1/3tu,HR
9260 GG/5,0303,12/22th,TA
9265+ EE/5,0300+,12/25su,5L & TA

0400-0459

3208 GG/5,0453,12/19m,VW
4025 SS/5,0400,12/23f,LP
4640 SS/x,0410,12/17sa,no grps, count to 100,TA
5810+ SS/4,0400+,1/1su,LP,//6804; 1/8su,5L,//6802
5812 SS/"545"test,12/25su,5L//6802
6827 SS/5,0403+,1/1su,1/8su,5L
6250 SS/5,0440,12/14w,VW
6452 SS/5,0407,1/9m,LP
6784 SS/5,0432,1/8su,5L
6800+ SS/4,0400+,12/11su & 12/24Sa, TA;12/25su,12/27tu,12/30f, 5L;1/1su,LP;1/8su,5L;//5810+
6810 SS/"545"test,0401,12/25su, TA,//5810
6810 SS/5,0430+,OM,12/14w,VW;12/ 28w,TA;12/29th,VW;12/29th, TA; see notes after logs
6843 CW/5,1/2m & 1/3tu,5L
6862 SS/5,0405,12/14w,VW
7527 SS/5,0401,12/24sa,LP
7836+ SS/3,0425-40,12/27tu,5L(USB); 12/28w,TA
7918 PH/5,0415,12/14w,VW
8214 SS/5,0430,12/23f,LP

9222 SS/4,0400+,12/23f,LP;12/27tu & 12/30f,5L
10184 SS/5,0432,12/23f,LP
10354 SS/5,0430,12/20tu,VW
11538 SS/5,0404,12/20tu,VW This time and freq. wld indicate SS/4????

0500-0559

3242 SS/5,0505,12/31sa,5L
6227 SS/5,0500,12/27tu,5L;1/10tu,GZ
6269U PH/5,0506,12/12m,VW
6508 GG/5,0529,12/21w,LP
6578+ SS/5,0530,12/14w,VW;12/21w,LP
6665 SS/5,0530+,12/8th,VW;12/27tu,12/31sa,1/1su,5L
6778 SS/5,0531,12/27tu,5L
6780+ SS/5,0500+,12/25su,TA;12/27tu,12/31sa,1/3tu,1/2m,1/8su,5L;1/8su,LP
6799+ SS/4,0500+,12/21w,LP;12/24sa,TA & LP,//8417
6825 SS/5,0502,12/30f,5L;*0522,12/31sa,5L;0530 12/24sa,TA & VW
6833 SS/5,0513,12/8th,VW
6892 SS/5,0505,1/8su,LP;1/1su 1/8su,5L
7375 EE/4,0540,12/14w,VW
7527 SS/5,0522+,12/12m & 12/12m, VW
7887 SS/5,0500,12/8th,VW
7918U PH/5,0515,12/12m,VW
8046 SS/5,0500,12/14w,VW
8056 SS/5,0532,1/1su,5L
8110 SS/5,0510,12/24sa,VW
8124 SS/5,0530+,12/14w,VW;12/21w,LP
8415+ SS/4,0500+,12/19m,12/24sa LP;12/28w,TA;//6799+
8868+ SS/5,0500+,12/12m,VW;12/19m,LP;1/2m,5L
9452 SS/5,0500,12/20tu,VW
9465 EE/4,0518,12/14w,VW
10020 SS/5,0530,12/12m,VW
11518 SS/5,0500,12/31sa,5L
11533 SS/5,0535,12/12m,VW (yes can be 5 at 1/2 hr.)

0600-0659

2706 GG/5,0600+,12/22th,//5014 LP;12/30f,VW
2750U GG/5,0642,12/25su,VW
4029 SS/5,0610,1/9m,LP
4575 GG/5,0607,12/14w,VW
4834 SS/5,0600,12/22th & 1/12th,LP
5015U GG/5,0630,12/7w,"PN", & 12/12m, VW
5133 SS/5,0618,12/12m,12/26m,VW
5762 SS/5,0600,12/12m,12/26m,VW
6294 SS/5,0630,12/8th,VW
6500+ CW/5,0604,12/10tu,PB
6507 GG/5,0625,12/10sa,12/24sa,VW
6733+ CW/5,0605+,12/22th,LP;12/31 sa,5L
6772+ SS/5,0613+,12/10sa,VW;12/31 sa,5L
6802 SS/4,0612,12/8th,VW
6872 SS/5,0630,12/8th,VW
6892 SS/5,0630+12/12m,12/25su, 12/26m,VW;1/1su,5L & LP
6955 SS/5,0635,12/14w,VW
7342 Ss/5,0610,12/7w,12/14w,VW
7444 PH/x,0611,12/30f,"KPA2",VW
7845+ SS/5,0600+,12/8th,VW;12/22th LP;*0604,1/12th,LP(carr. pre 0600,but no Aten.,then sudd.on & gave 10 grps.)
7887 SS/5,0630+,12/7w,12/14w,VW
7908 SS/5,0630,12/10sa,12/24sa,VW
7918 PH/x,0600,12/14w,"YHF2",VW
8056 SS/5,0609+,12/12m,12/25su, 12/26m,VW;1/9m,1/15su,LP
9462 SS/5,0630,12/10sa,VW
10020 SS/5,0630,12/25su,VW;1/1su,LP
11416 SS/5,0646,12/14w,VW
11634+ SS/5,0600,12/25su,VW;12/31sa,5L

0700-0759

3258 GG/5,0730,12/27tu,VW
4836 SS/5,0700,1/12th,LP
4882 ??/5,0715,12/10sa,om,VW
5417 SS/5,0700,12/25su,VW
5934 SS/5,0700,1/14sa,LP
6200 GG/5,0700,12/7w,VW
6227 SS/5,0700+,12/14w,VW;12/28w & 1/11w,LP
6235 GG/5,0722,12/12m,VW
6292 SS/5,0720,12/25su,VW
6772 SS/5,0700,12/12m,VW
6802 SS/4,0704,12/8th,VW,//5812
6833 SS/5,0700,12/10sa,12/24sa, VW & FR(he hrd RHC here, til cut off 0640, while carr. remained til #s); 1/14sa,LP
6867 SS/5,0736,12/14w,VW
6875 SS/5,0700,12/8th,VW;12/22th,LP
6888 SS/5,0709,1/1su,LP
6892 SS/5,0705,12/25su,VW
7527 SS/5,0730,12/25su,VW
7610 SS/x,0721,12/22th,om random #s,once hrd "oro"(9old) & some times used "de"(of) not fast like Babb.,LP
7845+ SS/5,0700+,12/12m,12/14w,VW;12/28w,LP;0730,12/12m,VW

7845a CW/5,1073,12/19m,PB
7887 SS/5,0710+,12/8th,12/10 sa,12/24sa,12/31sa,VW
8026 SS/5,0734+,12/6tu,12/27 tu,VW
8870 SS/5,0730,12/12m,VW
8900+ CW/5,0705,12/23f;0730+. 12/15th,12/22th,PB
9000+ CW/5,0703,12/20tu,PB
10020+ SS/5,0730,12/7w,12/8th, 12/14w,VW

0800-0859
6572 SS/5,0818,12/27tu,VW
6746a CW/5,0831,12/11su,PB
6780 SS/5,0812+,12/25su,VW; 1/1su,LP
6853 GG/5,0809,12/25su,VW
6917 SS/5,0830,12/8th,VW
7342 SS/5,0800,12/27tu,VW
7400+ CW/5,0806,12/21w,PB
7846 SS/5,0805,12/8th,VW
7887 SS/5,0830,12/7w,12/14w,VW
7907 SS/5,0800,12/25su,VW
8185+ SS/5,0800,12/7w,12/14w,VW
8872 SS/5,0800,12/8th,VW
9432 SS/5,0823+,12/10sa,12/27 tu,VW
9462 SS/5,0800+,12/10sa,12/27 tu,VW
9800+ CW/5,0800+,12/8th,12/8th, 12/22th,PB
10014+ SS/5,0800+,12/7w,12/10sa, 12/14w,VW
10138 SS/5,0800,12/14w,VW
10876 SS/5,0830,12/12m,VW
11412+ SS/5,0800+,12/7w,12/10sa, 12/12m,12/14w,VW
11512 SS/5,0803,12/12m,VW
11618 SS/5,0825,12/12m,VW
11634 SS/5,0805,12/10sa,VW

0900-0959
4600+ CW/5,0931,12/12m,PB
5135a CW/5,0902+,12/12m,12/19m, 0931,12/10sa,PB
5700+ CW/5,0900+,12/15th,12/20 tu,12/22th,PB(repeats noted,1000,6100+kHz)
5715 GG/5,0925,12/25su,LS
6227 SS/5,0933,12/27tu,VW
6294 SS/5,0900+,12/14w,12/27 tu,12/25su,VW
6410 GG/5,0921,12/25su,LS
6833 SS/5,0900,12/10sa,VW
6872+ SS/5,0912+,12/8th,12/27 tu,VW
6915 SS/5,0930,12/12m,VW
6926 SS/5,0935,12/14w,VW
7375 GG/5,0923,12/25su,LS
7429+ SS/5,0900+,12/8th,12/12m, 12/14w,12/25su,VW
7835 SS/x,0930,12/25su,VW What was it like, Vince? ed.
7854 SS/5,0900,12/14w,VW
7887 SS/5,0930,12/10sa,VW
8042 SS/5,0900,12/8th,12/27tu,VW
9144 SS/5,0934,12/7w,VW
9462 SS/5,0912,12/25su,VW
9878+ SS/5,0920+,12/8th,12/14w,VW
11082 SS/5,0905,12/25su,VW
11518 SS/5,0900,12/7w,12/14w,VW

1000-1059
5135a CW/5,1001,12/21w,PB
5238 SS/4,1000,12/8th,VW
5800+ CW/5,1002,12/19m,PB
5924 SS/5,1039,12/8th,VW
6700+ CW/5,1034,12/21w,PB
10124 SS/5,1000,12/8th,VW
12950 PH/x,1045,12/21w,"VLB2",LS

1100-1159
5450 ??/5,1114,12/27tu,LS
5820 GG/5,1107,12/23f,12/27tu,LS
5910 GG/5,1115,12/27tu,LS

1200-1259
2707 GG/5,1210,12/27tu,LS,// 5015,7403
5015 GG/5,1204,12/27tu,"PN", LS,//2707,7403
5820 GG/5,1203,12/27tu,LS
6411 GG/5,1202,12/27tu,LS
7403+ GG/5,1202,12/26m,12/27tu, "PN",LS,//2707, 5015
10570 SS/3,1235,12/13tu,JM//13808
13808 SS/3,1235,12/13tu,JM//10570

1300-1359
8180 SS/5,1340,12/31sa,ML
8418 SS/4,1330,12/24sa,JM//11532
11532 SS/4,1330,12/24sa,JM//8418
12950 PH/x,1348,12/23f,"VLB2", LS,//17595
17595 PH/x,1350,12/23f,"VLB2", LS,//12950

1400-1459
9450 GG/5,1445,12/25su,1/1su,JM
11532 SS/4,1400+,12/20tu,1/3tu, HR,//9074
13921 PH/5,1449,12/26m,5L
14428 SS/4,1411,12/25su,5L
14428 SS/"545"test,1411,12/25su,5L
14727 GG/5,1430,12/25su,"KW",1/1 su,JM,//14946
14945 GG/5,1439+,12/19m,12/31sa,5L
14945U GG/5,1430+,12/18su,5L;12/25 su,12/26m,5L;1/1su,HR & JM;"KW",JM hrd //14727

17436 SS/4,1411,12/25su,5L

1500-1559

4881+ PH/5,1538,12/23f,LS
9450 GG/5,1517,12/25su,JM
13782 GG/5,1504,1/1su,HR,"WA"
13921 PH/5,1503,12/25su,5L
14420+ SS/4,1500+,12/17sa,12/18 su,12/23f,12/24sa,12/ 26m,12/28w,12/29th,12/ 30f,12/31sa,1/1su, HR & 5L,//17436 hrd by 5L; That's what I call sitting on a freq.!
17435+ SS/4,1500+,12/18su,5L;12/ 25su,JM;12/26m,5L; //14421-28

1600-1659

3226 ??/5,1658,12/19m,LS
5180 GG/5,1642,12/26m,LS
8112 SS/5,1603+,12/18su,12/25, su,5L
9100+ CW/5,1605,12/16f,PB
9325 PH/5,1656,12/26m,LS
14945U GG/5,1602,12/25su,"TL",5L
16200 CW/5,1612,12/18su,5L

1700-1759

4395 GG/5,1705,12/26m,LS
4560 PH/5,1704,12/26m,LS
4730 GG/5,1700,12/30f,LS
5284 GG/5,1700,12/26m,"RT",LS
7632 EE/5,1703,12/27tu,LS //9435
8078U EE/4,1708,12/25su,LS
9435 EE/5,1705,12/27tu,LS //7632
13475 SS/5,1705,12/28w,TA
14945 GG/5,1702,12/19m,"BI",5L

1800-1859

11320 SS/5,1801,12/28w,TA
11532 SS/4,1833,12/23f,HR

1900-1959

3150 PH/5,1952,12/21w,LS
3262U GG/5,1909,12/20tu,LS
3930 PH/5,1906,12/30f,"ULX",LS
4770 GG/5,1909,12/25su,LS
4774+ GG/5,1906,12/20tu,12/26 su,LS (Before #s there was Piano mx)
4990 GG/5,1910,12/26m,LS
6824 SS/5,1915,12/26m,om,VW
7605 PH/x,1947,12/21w,"VLB2"LS
12164 CW/4,1900,12/31sa,GZt

2000-2059

3150 PH/x,2001,12/24sa,"PCD"LS
3350 ??/5,2044,12/18su,om,LS
3380 ??/5,2046,12/19m,LS
3414 PH/5,2038,12/27tu,LS
3930 PH/5,2004,12/20tu,"ULX",LS
4730 ??/5,2030,12/23f,LS
4780 PH/x,2020,12/23f,"KPA2",LS
4790 GG/5,2033,12/27tu,LS
4840 GG/5,2028,12/23f,LS
4990 GG/5,2010,12/17sa,12/19m, JM,//5440;2030,12/25su,LS
4990 GG/4,2009,12/18su,12/25su, 1/8su,JM,//5750 (note LS's GG/5 at 2030 cld be cont.of 2000 bc; if so, this & GG/4 same date do not agree;or 5 follows 4)
5330 EE/5,2000,12/16f,12/19m,JM //6875
5750 GG/4,2000,12/18su,12/15su, 1/8su,JM,//4990
11532 SS/4,2026,12/26m,LP,//16450
15614 SS/5,2034,12/6tu,VW
16450 SS/4,2026,12/26m,LP,//11532

2100-2159

3262 GG/5,2142,12/26m,LS
3370U GG/5,2145,12/10sa,GZ
3415U PH/5,2140,12/26m,LS
3820U GG/5,2143,12/26m,LS
3930 PH/5,2138,12/26m,"ULX",LS
4560 PH/5,2109,12/18su,LS
4790 GG/5,2130,12/30f,LS
5085 PH/5,2104,12/18su,LS
5659 ??/5,2115,12/11su,om,VW
5750 GG/5,2115+,12/11su,12/24 sa,VW
8062U GG/5,2148,12/11su,VW
8078 EE/5,2103,12/22th,LS//9435
8174U GG/5,2130,12/11su,"BE",VW
9435 EE/5,2102,12/22th,LS,//8078
11388 SS/5,2130,12/11su,VW
11490 SS/5,2100,12/11su,VW
11532 SS/4,2100+,12/22th,12/24sa, 12/31sa,1/7sa,LP,//16450
16450 SS/4,same as above,//11532

2200-2259

2953 PH/5,2223,12/26m,"SYN",VW
3150 PH/x,2200,11/5sa,11/11f, "PCD2",DM
3230U GG/5,2235,11/5sa,DM
3232 GG/5,2218+,12/19m,LS;12/ 26m,VW
3258 GG/5,2233,12/19m,VW
3261U GG/5,2216,12/26m,VW
3366 ??/5,2236,12/18su,LS
3370 GG/5,2203+,11/11f,DM; 12/26m,VW
3414 PH/5,2210,12/26m,VW
4012U GG/5,2230,date?,JM
4159 ??/3,2200,12/26m,VW (a call maybe?)
4543U GG/5,2216,12/19m,LS
4770 GG/5,2222,12/19m,LS

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  4990  GG/5,2221,12/19m,LS
  6825  GG/5,2206,12/7w,VW
  9074  SS/4,2220,12/7w,VW
 14425  SS/4,2237,12/28w,HR

2300-2359
  3090  SS/5,2300,1/1su,LP
  3820  GG/5,2300,12/11su,VW
  4030  SS/5,2320,12/11su,VW
  4594  GG/5,2300,12/19m,"DK",JM
 11532  SS/4,2307,12/13tu,12/15
          th,1/10tu,JM,//0974
 12163  CW/?,2338,12/24sa,5L
```

* indicates start time of bc, in unusual cases

SPyologists for this issue:

Adamaszek,Thad,OH--TA
Bowers, Phil,TN--PB
Chernos,Saul,ONT--SC
Devendorf,Chris,CA--CD
Lewis,Mark,CA--ML
Morrison,Jon,ME--JM
Pettit,Lani,IA--LP
Ratliff,Hub,TX--HR
Roberts,Fred,OH--FR
Struck,Lothar,FRG--LS
Zeller,Geor9e,OH--GZ
" " Trinidad--GZt
(No lo9s from David Markwick,UK--DM, but some I left out last mo. are in.)

Thanx for your Patience last month! Under the circumstances, it was all I could do. You 9uys are really a suPer bunch.

I've been receivin9 taPes from several of you (LS,DM,TA,5L), and am be9innin9 to sort out the Euro-sPies, and unusual lan9ua9es. LS feels that the ??/5 many have heard could be Czech. It's near-RR, and a bit like Polish. I a9ree, Lothar...and that is what my "lan9.exPert" in FL says, (Tim Hendel, a blind DXer we all know from ANARC conv.s) He wants to listen to more samPles, so soon I'll be able to make him a taPe. DM sent the neatest sPy to date...some of you have hrd. it over the Phone. It's a RR-tyPe YL, with a hi-Pitched voice and very sin9-son9 in style. It's really funny! If room, I'll have a listin9 of tyPes of sPies hrd. in the U.S. Later, I'd like to classify the Euro-sPies, like PH/5 and diff. kinds of calls we never hear. Please send corrections and additions to me. You 9uys across the ocean can helP me on the others.

On Jan. 8, Glenn "9h" Hauser 9ave his RCI-tyPe rePt. on R. Earth. He told of Vietnamese stat'ns hrd. by a JaPanese DXer, on 4700 instead of 4770, and he added "which is not to be confused w/the No. Korean sPy stat. hrd. at 1300-1307. If 5L travels in that direction someday, I hoPe he'll lo9 it for us!

Have any of you wished to challen9e a lo9 in column? Feel free to do so if you have ideas to share about it. And I can use helP in checkin9 them out, esPecially unusual ones. We now have an illustrious new A*C*E member, SPence Naylor, utilities editor for ASWLC. SPence keePs fantastic records, and can sPot all kinds of tactical and other utes we may at times confuse with sPies. SPence is one of my "heroes" in ute-DXin9! Welcome! Also, we want to welcome another UK member, Brian Povey...who likes Blackbird's idea in Dec. SPy Centre.

5LGM has lots of ideas to share in a future issue re: sPy studies, so stayed tuned. SPecial thanx to ACE DXers, Thad, 5L, Saul, SPence, and Rich Eckman for recent calls...my Phone runneth over!

There were rePorts of "Babbler" last mo., which I had no room to comment on. The fre9s. we know he uses are 3646 and 7397. Some similar bc's were not at auctioneer sPeed, so don't Prob. deserve the title. For now, we'll say SS/x, and exPlain in the lo9.

Thanx for all the neatly done lo9s, and esPecially you 9uys who took the time to sort them by hour and then fre9. You helPed me so much. Some unmana9eable lo9s were not used...1 inch Please, for width. It will be helPful if you include SIO code, and other details not used. They will all helP in our research. If you've never hrd. the sPy before, a descriPtion may helP me...it could be somethin9 hrd. before or that is on some of the taPes I've received. Use PH, rather than EE when you mean letters like alPha, kilo, etc.

CD has lo99ed some RTTY sPies...and when I have room, I'd like to describe the format (thanx Chris). What are your feelin9s about lo99in9 RTTY sPies in the column?

Types of "Spy Numbers" stations heard in the U.S.:
(Corrections and additions welcomed.)

SS/4--Call: 3 #s(x3),then "1234567890", for 10 min.; then 10 slow PiPs; followed by "9ruPo" & a # (which is the # of 9rPs. she's 9oin9 to 9ive) (x2); then 9rPs. of 4; then "rePita","9ruPo" & entire ms9. repeated; closes with "fin"(feen). Same YL on all; can be lon9, as can it's carriers; same ms9. hrd other days; Parallels used.

SS/"545"test: same YL & fre9s. as SS/4; "545" over & over for 10 min.

SS/3--Same YL as above 2; 5 min. of time PiPs; a lon9; then 3 or 4 9rPs. of 3 over & over for 10 min. (common examPle, 0125-40, on 10570).

SS/5--Call: "Atencion" and 2 sets of #s, for 3 min. (the sec. # is how many 9rPs. she'll 9ive); 9rPs. of 5 not rePeated; closes w/"final" (fee-nal). Diff.yls; rePeats noted. Variations have included 3 sets of #s in the call. And a more recent tyPe uses 10's & 100's #s rather than sin9le di9its durin9 the call; 9rPs. done the same way; but she 9ives 3 "finals" where the others 9ive 2. An om voice has been reported at times; a bored yl we call "DeeP Vox" is of this new tyPe. Recent reports of OM 9ivin9 5d SS may be a whole new format to watch (see 0400, 6810); he closes w/call #s, it seems, and that is followed by "00000"(see SS/x????)

SS/x--Two tyPes of note recently, a) OM 9ivin9 3 min. of "639" (x3)"00000" esP. Wed. at 2100, 7446 & 2130, 9446; very mech. vx. b) "The Babbler" rattles off random #s, sometimes countin9 to 100, at an auctioneer sPeed; slower, but similar bc's have been hrd.

EE/4--Less common, but of same format as SS/4; uses "count" in Place of "9ruPo" & closes with "end."

EE/5--Call: CW "N's" for 5 min.; then "9rouP" and # (which is how many 9rPs. she'll 9ive); 9rPs. of 5 each 9iven 2x; rePeats entire ms9.; closes w/ "end"; has stron9 accent, & is same yl who does GG/5.

GG/5--Call: CW "N's" for 5 min.; then "9ruPPe" and # (as above); 9rPs. x2 and then entire ms9. rePeated; closes w/ "ende." GG/5 seems to be hrd. more than EE/5. Often same ms9. is hrd on a diff. hr. on one of their other fre9s.

GG/5--Call: PaPa November (other PH calls have been noted) w/ flute-like tune for 5 min.; then uses "achtun9" and "9ruPPen" to 9ive the #s to 9o w/ all the sets she's about to 9ive (2nd # tells how many); as she 9ives each. set, she 9ives those #s a9ain, and "achtun9" in between; each 9rP. of 5 is said 2x. Same bc has been rePeated on the foll. 1/2 hr., & then in SSB; //fre9s. are used. Seems to be a more distant stat. for us here than the other GG/5.

PH/x--Just 9rPs. of 4 ltrs/#s hrd over & over, like "Kilo PaPa AlPha 2" or "Victor Lima Bravo 2". Often hrd. 45 min. after hr. (When I 9et PH/5 listed, w/ Euro-sPies, we may find they are linked.)

CW/4--Same format as SS/3, above, but a slow CW is used; uses cut #s ABDENTUV4 and 6; 3 or 4 sets of 4, over & over. Tfc. of this sPy has also been noted (on GG/5,EE/5 fre9s.) with a 3/ltr call, 2 lon9s 3 ltrs x2 (indicates # of 9rPs.); into 9rPs.

CW/5--Not 9uite as slow as other, this uses only ADGIMNRTUW; call for 5 min. of 3 ltrs & 2 ltrs.;then BT (3x); into tfc;ends w/ AR (x3) and VA (x3); same ms9s. hrd. often.

There are alot of diff. ones hrd. in Euro. w/ musical scales for call, with 9on9s, etc. With the helP of the 9an9 in UK and FRG, I hoPe to compile an additional list. HoPe this is useful to you.

Please helP Saul Chernos solve the mystery of a sPy he hrd. 12/28w,abt. 6250,0250, usin9 GG & EE & 9rPs. of ltrs/#s; words hrd. sounded like "nicht" and "?estow". Oddly enuf, he hrd. Rocky Mountain Hi9h before it! On this weird note, I close this month's edition of this weird but wonderful little column, by all us weird but wonderful PeoPle!

73's, and 88's for Valentine's Day! Lani

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ANARC MEMBER SINCE 1982

EXPLANATION OF ABREVIATIONS

UTC - All times are in UTC. Midnight UTC=0000. 0000 UTC = 7 pm EST, 6 pm CST, 5 pm MST, 4 pm PST. A " * " at the beginning or end of a listed time means that a transmission begin or ended exactly at that moment. Expl: *0100 = began, 0100* = ended.

Dates are also listed in UTC. A new date begins after 0000 UTC. Expl: 7:00 pm, January 1 = 01:00 UTC, Jan. 2.

QSL = Card or letter sent to a listener to confirm his reception of a broadcast.

ANARC = Association of North American Radio Clubs, an organization to which A*C*E belongs dedicated to the advancement of SWLing and DXing, and promotion of it's members.

A*C*E DiaLogs:

Pirate & Clandestine radio stations are listed by continent, and then alphabetacal order, followed by frequency in kHz, date, time in UTC, SIO signal report, details, reporter and state.

SPY CENTRE

A*C*E is the only club in the world we know of with a column dedicated to SPY* transmissions. These stations transmit a series of numbers in a variety of languages, usually spanish and german, and have been consistantly heard for over two decades. Stations are listed first by hours of the day, then by frequency.

SS/4=Spanish language station reading numbers in groups of 4.
GG/5=German language station reading numbers in groups of 5.
EE=English RR=Russian HH=Hebrew
PH=Phonetics CW=Morse Code ??=Unkown language

expl: 5180 GG/5, 12/19m : this translates to German language Spy reading numbers in groups of 5 on 5180 kHz. The date was Dec. 19, which was a monday.

MINNEAPOLIS, MN 554 FEB 1 PM 1984

Webb Linzmayer, 1084
Electrovalue Ind.
16 Trowbridge Road
Morris Plains, NJ 07950

A*C*E utilizes the SIO code to report the quality of a radio signal. SIO=Signal, Interference, Overall rating of the signal.

	Signal (S)	Interference (I)	Overall quality (O)
1	Very poor signal	very bad interference	very poor quality
2	poor signal	bad interference	poor quality
3	moderate signal	moderate interference	average quality sig.
4	good signal	minimal interference	good quality sig.
5	excellent signal	no interference at all	excellent quality

Perhaps we should note that an SIO of 555 is equivilent to a local AM broadcast station.

WELCOME NEW MEMBERS!

A big, hearty A*C*E welcome to the following new members!

Steven Phipps	MO	Archie Bullington	FL
Tony Wright	GA	Kasse Zegel	NY
Don Carter	WV	Joe Conroy	PA
Mike Pingetzer	NB	Rick Moore	US VI
Joe Holliday	FL	Ron Ricketts	TX
Dennis Dean	OH	Joe Williams	PA
Mike Csorbay	ONT	Charles Smith	FL
Neal Krasnoff	NY		